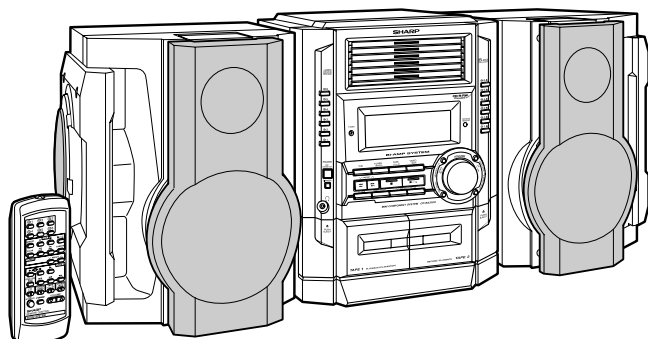


SHARP SERVICE MANUAL

No. S2111CDBA3100



MINI COMPONENT SYSTEM

MODEL CD-BA3100

CD-BA3100 Mini Component System consisting of CD-BA3100 (main unit) and CP-BA3100 (speaker system).

COMPACT
disc
DIGITAL AUDIO

CD-R/RW
Playable 

6-CD
CHANGER

- In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.

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PACKING OF THE SET (FOR U.S.A. ONLY)	

FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

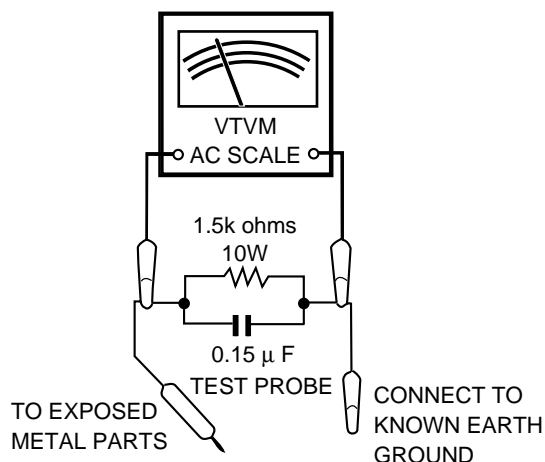
IMPORTANT SERVICE NOTES (FOR U.S.A. ONLY)

BEFORE RETURNING THE AUDIO PRODUCT

(Fire & Shock Hazard)

Before returning the audio product to the user, perform the following safety checks.

1. Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the audio product.
2. Inspect all protective devices such as insulating materials, cabinet, terminal board, adjustment and compartment covers or shields, mechanical insulators etc.
3. To be sure that no shock hazard exists, check for leakage current in the following manner.
 - * Plug the AC line cord directly into a 120 volt AC outlet.
 - * Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15 μ F capacitor in series with all exposed metal cabinet parts and a known earth ground, such as conduit or electrical ground connected to earth ground.
 - * Use a VTVM or VOM with 1000 ohm per volt, or higher, sensitivity to measure the AC voltage drop across the resistor (See diagram).
 - * Connect the resistor connection to all exposed metal parts having a return path to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.



All check must be repeated with the AC line cord plug connection reversed.

Any reading of 0.3 volt RMS (this corresponds to 0.2 milliamp. AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the audio product to the owner.

SPECIFICATIONS

CD-BA3100

General

Power source	AC 120 V, 60 Hz
Power consumption	164 W
Dimensions	Width: 10-1/4" (260 mm) Height: 13-5/16" (338 mm) Depth: 14-13/16" (375 mm)
Weight	19.0 lbs (8.6 kg)

Amplifier

Output power	100 watts minimum RMS per channel into 6 ohms from 60 Hz to 20 kHz, 10 % total harmonic distortion Subwoofer : 60 W/ch (60 Hz - 200 Hz, 6 ohms, 10 % T.H.D.) Main : 40 W/ch (200 Hz - 20 kHz, 6 ohms, 10 % T.H.D.)
Output terminals	Speakers: 6 ohms Headphones: 16-50 ohms (recommended; 32 ohms)
Input terminals	Video/Auxiliary (audio signal): 500 mV/47 kohms

CD player

Type	6-disc multi-play compact disc player
Signal readout	Non-contact, 3-beam semiconductor laser pickup
D/A converter	1-bit D/A converter
Frequency response	20 - 20,000 Hz
Dynamic range	90 dB (1 kHz)

Tuner

Frequency range	FM: 87.5-108 MHz AM: 530-1,720 kHz
-----------------	---------------------------------------

Cassette deck

Frequency response	50-14,000 Hz (Normal tape)
Signal/noise ratio	55 dB (TAPE 1, playback) 50 dB (TAPE 2, recording/playback)
Wow and flutter	0.3 % (WRMS)

CP-BA3100

Type	3-way type speaker system 2" (5 cm) Tweeter 5-1/4" (13 cm) Woofer 5-1/4" (13 cm) Subwoofer
Maximum input power (Total)	200 W
Rated input power (Total)	100 W
Impedance	6 ohms
Dimensions	Width: 11" (280 mm) Height: 13" (330 mm) Depth: 10-11/16" (272 mm)
Weight	10.6 lbs. (4.8 kg)/each

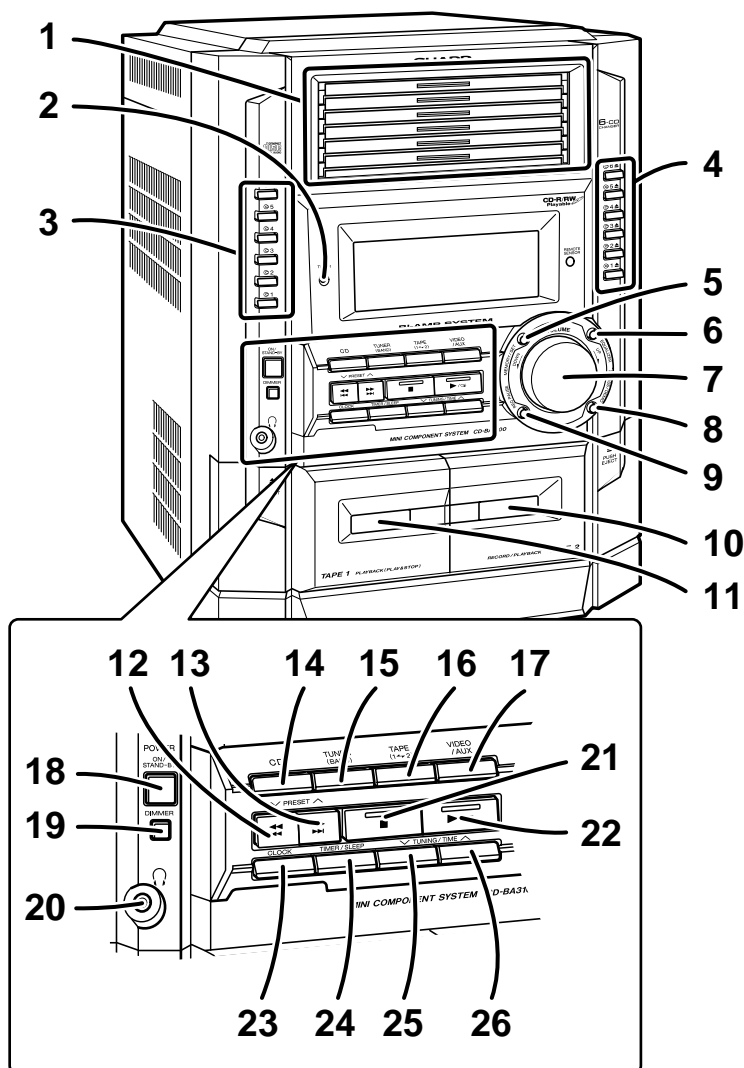
Specifications for this model are subject to change without prior notice.

NAMES OF PARTS

CD-BA3100

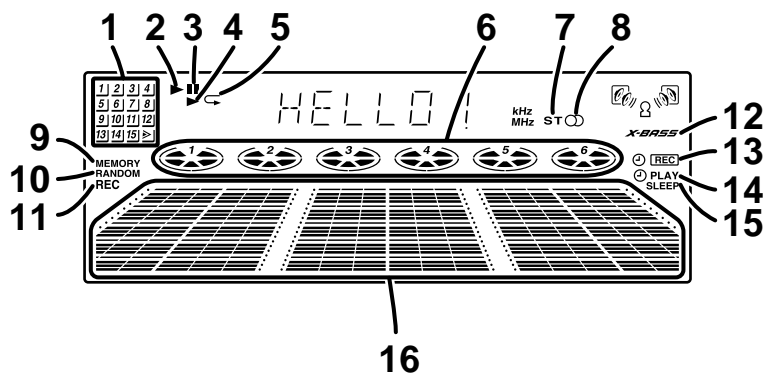
■ Front panel

1. Disc Trays
2. Timer Set Indicator
3. CD Direct Play Buttons
4. CD Eject Buttons
5. Memory/Set Button
6. Equalizer Mode Select Button
7. Volume Control
8. Extra Bass/Demo Mode Button
9. Tape 2 Record Pause Button
10. Tape 2 Cassette Compartment
11. Tape 1 Cassette Compartment
12. CD Track Down or Fast Reverse, Tape 2 Rewind, Tuner Preset Down Button
13. CD Track Up or Fast Forward, Tape 2 Fast Forward, Tuner Preset Up Button
14. CD Button
15. Tuner (Band) Button
16. Tape (1 ↔ 2) Button
17. Video/Auxiliary Button
18. Power On/Stand-by Button
19. Dimmer Button
20. Headphone Jack
21. CD or Tape Stop Button (with Indicator)
22. CD Play or Repeat, Tape Play Button (with Indicator)
23. Clock Button
24. Timer/Sleep Button
25. Tuning and Time Down Button
26. Tuning and Time Up Button



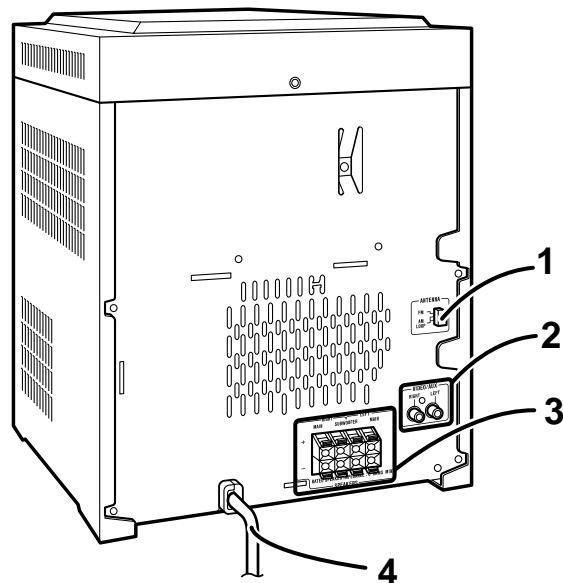
■ Display

1. CD Music Schedule Indicators
2. CD Play Indicator
3. CD Pause Indicator
4. Tape Play Indicator
5. CD Repeat Indicator
6. CD Indicators
7. FM Stereo Mode Indicator
8. FM Stereo Receiving Indicator
9. Memory Indicator
10. CD Random Play Indicator
11. Tape 2 Record Indicator
12. Extra Bass Indicator
13. Timer Recording Indicator
14. Timer Play Indicator
15. Sleep Indicator
16. Spectrum Analyzer/Volume Level Indicator



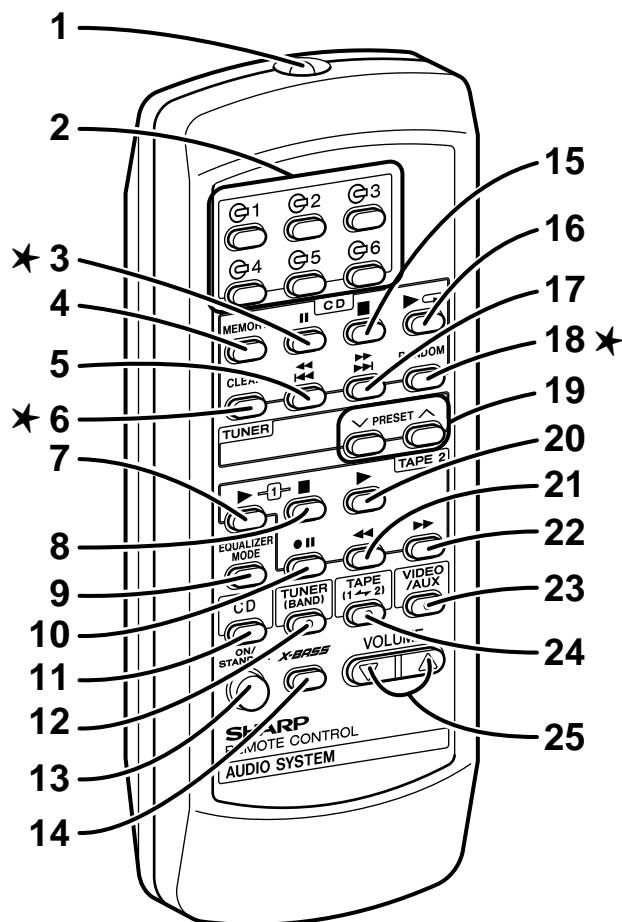
■ Rear panel

1. FM/AM Loop Antenna Jack
2. Video/Auxiliary (Audio Signal) Input Jacks
3. Speaker Terminals
4. AC Power Cord



■ Remote control

1. Remote Control Transmitter
2. CD Direct Play Buttons
3. **CD Pause Button**
4. CD Memory Button
5. CD Track Down or Fast Reverse Button
6. **CD Clear Button**
7. Tape 1 Play Button
8. Tape 1/Tape 2 Stop Button
9. Equalizer Mode Select Button
10. Tape 2 Record Pause Button
11. CD Button
12. Tuner (Band) Button
13. Power On/Stand-by Button
14. Extra Bass Button
15. CD Stop Button
16. CD Play or Repeat Button
17. CD Track Up or Fast Forward Button
18. **CD Random Button**
19. Tuner Preset Up/Down Buttons
20. Tape 2 Play Button
21. Tape 2 Rewind Button
22. Tape 2 Fast Forward Button
23. Video/Auxiliary Button
24. Tape (1 ↔ 2) Button
25. Volume Up or Down Buttons

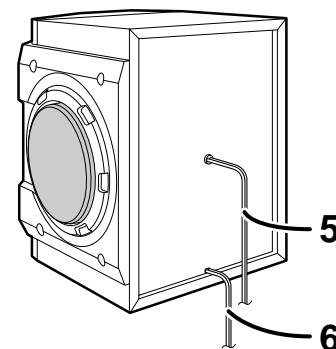
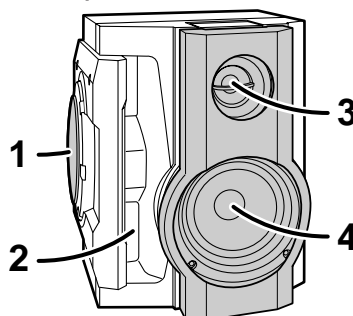


Buttons with “*” mark in the illustration can be operated on the remote control only.
Other buttons can be operated both on the main unit and the remote control.

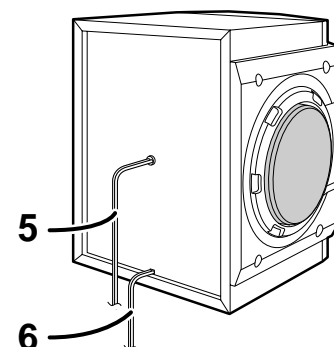
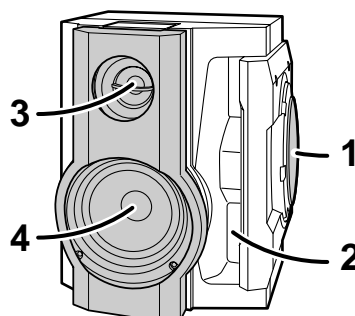
CP-BA3100

1. Subwoofer
2. Bass Reflex Duct
3. Tweeter
4. Woofer
5. Speaker Wire for SUBWOOFER
Terminals
6. Speaker Wire for MAIN Terminals

Left speaker

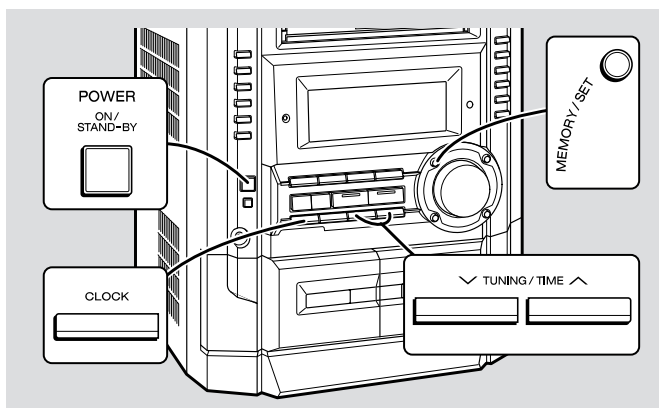


Right speaker



OPERATION MANUAL

Setting the Clock



In this example, the clock is set for the 12-hour (AM 12:00) display.

- 1 Press the ON/STAND-BY button to turn the power on.

- 2 Press the CLOCK button and within 5 seconds, press the MEMORY/SET button.



- 3 Press the TUNING/TIME (V or ^) button to select the 12-hour or 24-hour display and then press the MEMORY/SET button.



"AM 12:00" → The 12-hour display will appear. (AM 12:00 - PM 11:59)
 "AM 0:00" → The 12-hour display will appear. (AM 0:00 - PM 11:59)
 "0:00" → The 24-hour display will appear. (0:00 - 23:59)

Note that this can only be set when the unit is first installed or it has been reset.
 (Refer to step 3 under "If trouble occurs".)

- 4 Press the TUNING/TIME (V or ^) button to adjust the hour and then press the MEMORY/SET button.



- Press the TUNING/TIME (V or ^) button once to advance the time by 1 hour. Hold it down to advance continuously.
- When the 12-hour display is selected, "AM" will change automatically to "PM".

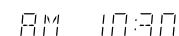
- 5 Press the TUNING/TIME (V or ^) button to adjust the minutes and then press the MEMORY/SET button.



- Press the TUNING/TIME (V or ^) button once to advance the time by 1 minute. Hold it down to change the time in 5-minute intervals.
- The hour will not advance even if minutes advance from "59" to "00".
- The clock begins counting from "0" seconds. (Seconds are not displayed.) The time display will disappear after a few seconds.

To confirm the time display:

Press the CLOCK button.
 The time display will appear for about 5 seconds.



Note:

The "CLOCK" or time will flash at the push of the CLOCK button when the AC power supply is restored after a power failure or unplugging the unit.
 Readjust the clock as follows.

To readjust the clock:

Perform "Setting the Clock" from the beginning.
 If the time display is flashing, step 3 (for selecting the 12-hour or 24-hour display) will be skipped.

To change the 12-hour or 24-hour display:

1. Clear all the programmed contents.
 [Refer to step 3 under "If trouble occurs" on page 30 for details.]
2. Perform "Setting the Clock" from the beginning.

Troubleshooting Chart

Many potential "problems" can be resolved by the owner without calling a service technician. If something is wrong with this product, check the following before calling your authorized SHARP dealer or service center.

General

Symptom	Possible cause
● The clock is not on time.	● Did a power failure occur? Reset the clock.
● When a button is pressed, the unit does not respond.	● Set this unit to the power stand-by mode and then turn it back on. ● If the unit still malfunctions, reset it. (Refer to step 3 under "If trouble occurs".)
● No sound is heard.	● Is the volume level set to "0"? ● Are the headphones connected? ● Are the speaker wires disconnected?

CD player

Symptom	Possible cause
● Playback does not start. ● Playback stops in the middle or is not performed properly.	● Is the disc loaded upside-down? ● Does the disc satisfy the standards? ● Is the disc distorted or scratched?
● Playback sounds are skipped, or stopped in the middle of a track.	● Is the unit located near excessive vibrations? ● Is the disc very dirty? ● Has condensation formed inside the unit?

Tuner

Symptom	Possible cause
● Radio makes unusual noise consecutively.	● Is the unit placed near the TV or computer? ● Is the FM/AM loop antenna placed properly? Move the AC power cord away from the antenna if located near.

Cassette deck

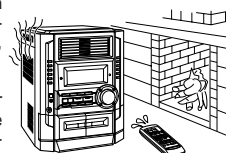
Symptom	Possible cause
● Cannot record.	● Is the erase-protection tab removed?
● Cannot record tracks with proper sound quality. ● Cannot erase completely.	● Is it a normal tape? (You cannot record on a metal or CrO ₂ tape.)
● Sound skipping.	● Is there any slack? ● Is the tape stretched? ● Are the capstans, pinch rollers, or heads dirty?
● Cannot hear treble. ● Sound fluctuation.	
● Cannot remove the tape.	● If a power failure occurs during playback, the heads remain engaged with the tape. Do not open the compartment forcibly. Wait until electricity resumes.

Remote control

Symptom	Possible cause
● The remote control does not operate.	● Is the AC power cord of the unit plugged in? ● Is the battery polarity respected? ● Are the batteries dead? ● Is the distance or angle incorrect? ● Does the remote control sensor receive strong light?

Condensation

Sudden temperature changes, storage or operation in an extremely humid environment may cause condensation inside the cabinet (CD pickup, tape heads, etc.) or on the transmitter on the remote control. Condensation can cause the unit to malfunction. If this happens, leave the power on with no disc (or cassette) in the unit until normal playback is possible (about 1 hour). Wipe off any condensation on the transmitter with a soft cloth before operating the unit.



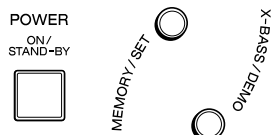
Troubleshooting Chart

If trouble occurs

When this product is subjected to strong external interference (mechanical shock, excessive static electricity, abnormal supply voltage due to lightning, etc.) or if it is operated incorrectly, it may malfunction.

If such a problem occurs, do the following:

1. Set the unit to the stand-by mode and turn the power on again.
2. If the unit is not restored in step 1, unplug and plug in the unit, and then turn the power on.
3. If neither step 1 nor 2 restores the unit, do the following:
 - ① Press the ON/STAND-BY button to enter the power stand-by mode.
 - ② While pressing down the MEMORY/SET button and X-BASS/DEMO button, press the ON/STAND-BY button until "CLEAR AL" appears.



Caution:

This operation will erase all data stored in memory including clock, timer settings, tuner preset, and CD program.

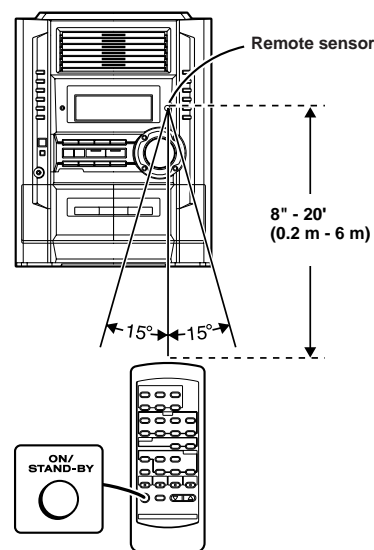
Remote Control

Test of the remote control

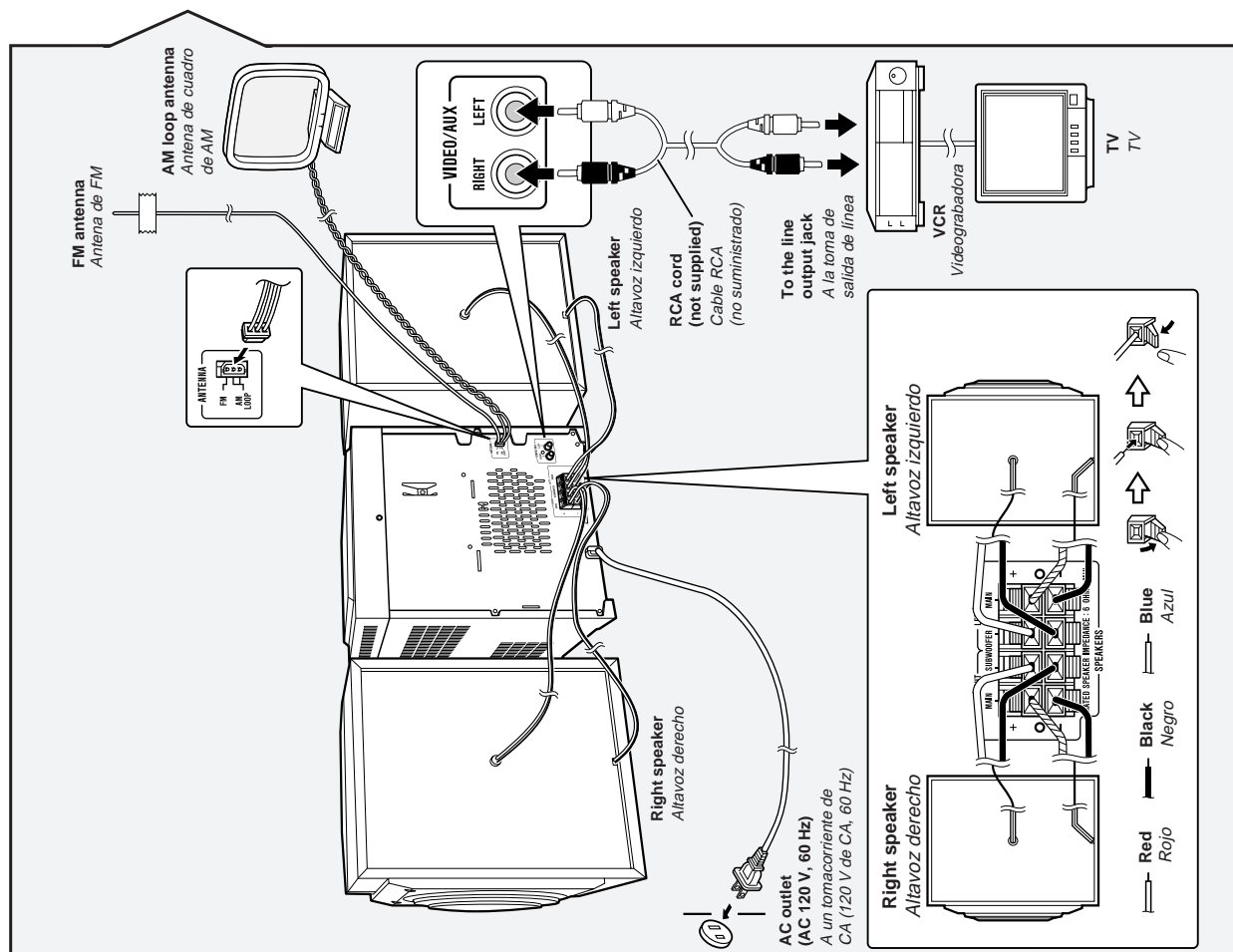
Face the remote control directly to the remote sensor on the unit.

The remote control can be used within the range shown below:

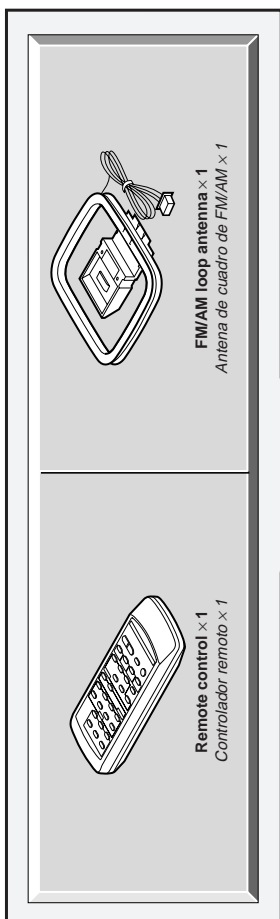
Press the ON/STAND-BY button. Does the power turn on? Now, you can enjoy the music.



3 System Connections Conexiones del sistema



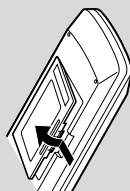
1 Accessories Accesorios



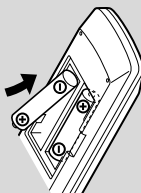
2 Battery Installation of the Remote Control Instalación de las pilas del controlador remoto

Use 2 "AA" size batteries (UM/SUM-3, R6, HP-7 or similar).
Use dos pilas del tamaño "AA" (UM/SUM-3, R6, HP-7 o equivalentes).

1 Remove the battery cover. Extraiga la cubierta de las pilas.

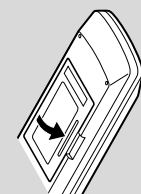


2 Insert the batteries as shown. Inserte las pilas como se muestra.



Batteries are not included.
Las pilas no están incluidas.

3 Replace the cover. Vuelva a colocar la cubierta.



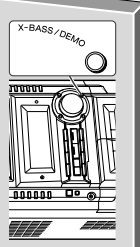
Listening to the Radio Audición de la radio

4 Turning on Your System Conexión de la alimentación de su sistema

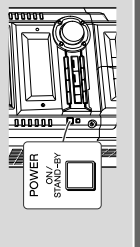
The first time the unit is plugged, the unit will enter the demonstration mode. You will see words scroll.

Cuando se enchufe por primera vez el aparato, se establecerá en el modo de demostración. Verá un desplazamiento de palabras.

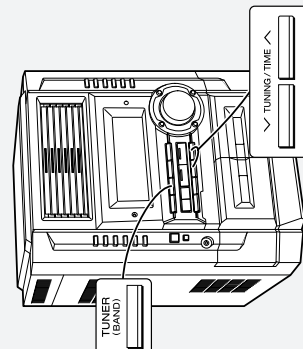
- 1 Press the **X-BASS/DEMO** button to cancel the demonstration mode.
Pulse el botón **X-BASS/DEMO** para cancelar el modo de demostración.



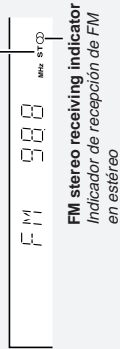
- 2 Press the **ON/STAND-BY** button to turn the power on.
Pulse el botón **ON/STAND-BY** para conectar la alimentación.



- 1 Press the **TUNER (BAND)** button repeatedly to select the desired frequency band (FM or AM).
Pulse repetidamente el botón **TUNER (BAND)** para seleccionar la banda de frecuencia deseada (FM o AM).
- 2 Press the **TUNING/TIME** (< or >) button to tune in to the desired station. When the **TUNING/TIME** button is pressed for more than 0.5 seconds, scanning will start automatically and the tuning will stop at the first receivable broadcast station.
Pulse el botón **TUNING/TIME** (< o >) para sintonizar la emisora deseada. Cuando se pulse el botón **TUNING/TIME** durante más de 0.5 segundos, la exploración se iniciará automáticamente y el sintonizador se parará en la primera emisora difusora que pueda recibirse.



FM stereo mode indicator
Indicador del modo de FM en estéreo



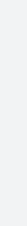
To receive an FM stereo transmission:
Press the **TUNER (BAND)** button to display the "ST" indicator.

● "CD" will appear when an FM broadcast is in stereo.

Para recibir una transmisión de FM en estéreo:
Pulse el botón **TUNER (BAND)** para que se encienda el indicador "ST".
● "CD" aparecerá cuando una difusión de FM sea en estéreo.

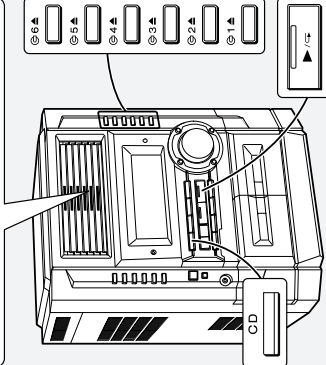
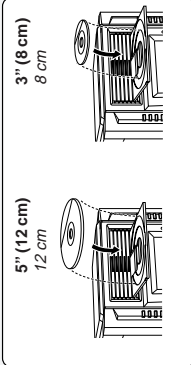


FM stereo receiving indicator
Indicador de recepción de FM en estéreo



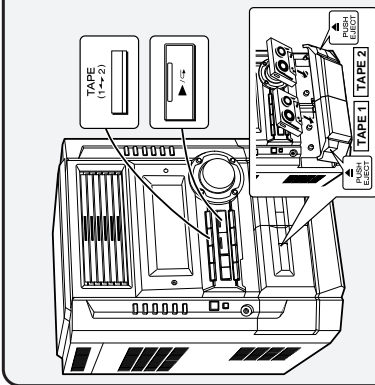
Listening to a CD (CDs) Audición de un disco CD (discos CD)

- 1 Press the **CD** button.
Pulse el botón **CD**.
- 2 Press the **1** button to open the disc tray 1.
Pulse el botón **1** para abrir la bandeja del disco 1.
- 3 Place a CD on the disc tray 1, label side up.
Coloque un disco compacto en la bandeja del disco 1, con el lado de la etiqueta arriba.
- 4 Press the **1** button to close the disc tray 1.
Pulse el botón **1** para cerrar la bandeja del disco 1.
- 5 You can place discs on the trays 2 - 6 by following steps 2 - 4.
Podrá colocar discos en las bandejas 2 - 6 según los pasos 2 - 4.
- 6 Press the **▶/⏮** button to start playback.
Pulse el botón **▶/⏮** para iniciar la reproducción.



Listening to a Cassette Tape (TAPE 1 or TAPE 2) Audición de una cinta de cassette (TAPE 1 o TAPE 2)

- 1 Open the cassette door by pushing the area marked "▲ PUSH EJECT".
Abra la puerta del cassette pulsando la parte marcada "▲ PUSH EJECT".
- 2 Load a cassette into the TAPE 1 or TAPE 2 cassette compartment with the side to be played facing toward you.
Cargue un cassette en el compartimento de cassette de TAPE 1 o de TAPE 2 con la cara a reproducirse encarada hacia usted.
- 3 Press the **TAPE (1 ~ 2)** button to select the cassette you want to listen to.
Pulse el botón **TAPE (1 ~ 2)** para seleccionar el cassette que desee escuchar.
- 4 Press the **▶/⏮** button to start playback.
Pulse el botón **▶/⏮** para iniciar la reproducción.



DISASSEMBLY

Caution on Disassembly

Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep it safe and ensure excellent performance:

1. Take cassette tape and compact disc out of the unit.
2. Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit.
3. Take off nylon bands or wire holders where they need to be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.
4. Take sufficient care on static electricity of integrated circuits and other circuits when servicing.

CD-BA3100

STEP	REMOVAL	PROCEDURE	FIGURE
1	Top Cabinet	1. Screw (A1) x5	9-1
2	Side Panel (Left/Right)	1. Screw (B1) x8 2. Screw (B2) x2 3. Hook (B3) x2	9-1
3	Rear Panel with Fan Motor	1. Screw (C1) x2 2. Screw (C2) x5 3. Screw (C3) x2 4. Socket (C4) x1	9-2
4	CD Changer Unit	1. Socket (D1) x2 2. Hook (D2) x2	9-2
5	Main PWB	1. Screw (E1) x1 2. Socket (E2) x3 3. Flat Cable (E3) x1	9-2 9-3, 10-1
6	Power Amp. PWB	1. Screw (F1) x6 2. Socket (F2) x3 3. Flat Wire (F3) x1 4. PWB Holder (F4) x2	10-1 9-3, 10-1 10-1
7	Front Panel	1. Screw (G1) x2 2. Hook (G2) x2	10-1
8	Eject Switch PWB	1. Screw (H1) x2 2. Socket (H2) x1	10-2
9	Play Switch PWB	1. Screw (J1) x2 2. Socket (J2) x1	10-2
10	Display PWB	1. Knob (K1) x1 2. Screw (K2) x9 3. Flat Cable (K3) x1	10-2
11	Headphones PWB	1. Screw (L1) x1	10-2
12	Tape Mechanism	1. Open the cassette holder. 2. Screw (M1) x6	10-2

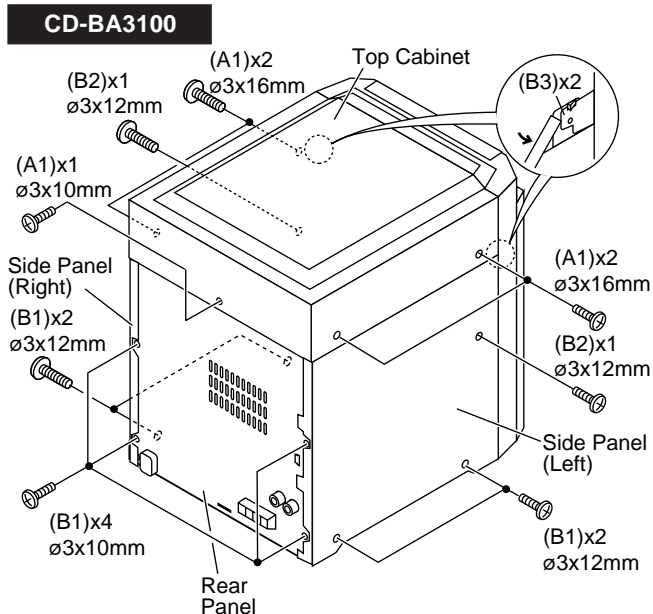


Figure 9-1

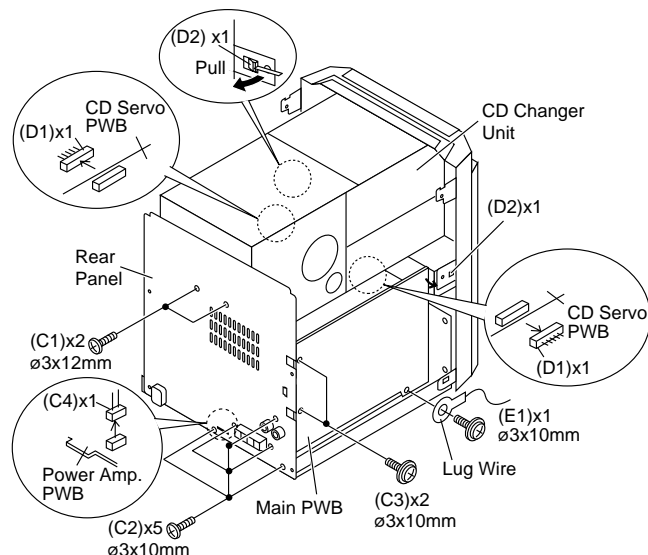


Figure 9-2

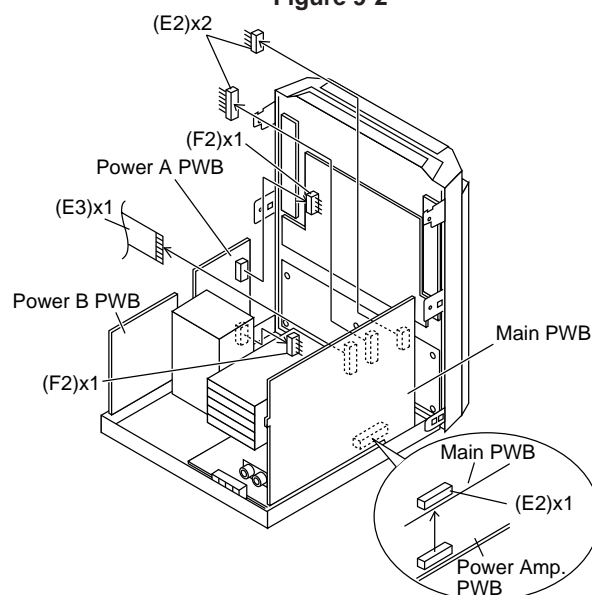


Figure 9-3

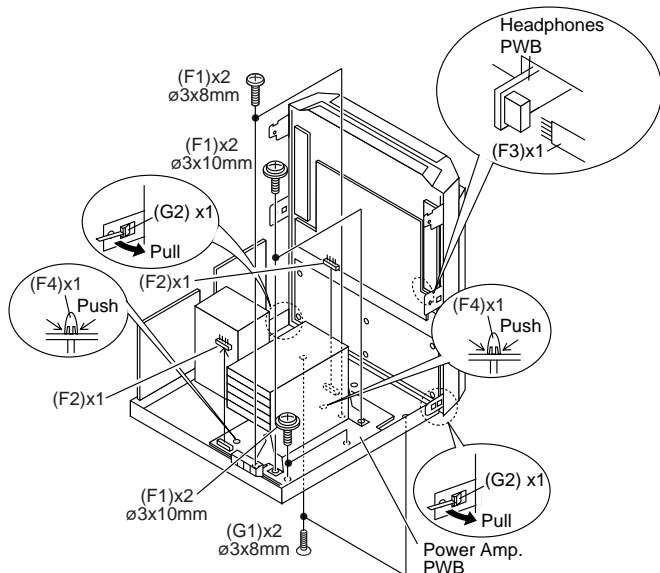


Figure 10-1

CD-BA3100 (CD CHANGER MECHANISM UNIT)			
STEP	REMOVAL	PROCEDURE	FIGURE
1	Top Cabinet	1. Screw (A1) x4	9-1
2	Side Panel (Left/Right)	1. Screw (B1) x8 2. Screw (B2) x2 3. Hook (B3) x2	9-1
3	Rear Panel with Fan Motor	1. Screw (C1) x2 2. Screw (C2) x5 3. Screw (C3) x2 4. Socket (C4) x1	9-2
4	CD Changer Unit	1. Socket (D1) x2 2. Hook (D2) x2	9-2
5	CD Servo PWB (Note)	1. Screw (N1) x4 2. Screw (N2) x4 3. Socket (N3) x4 4. Flat Wire (N4) x2	10-3
6	CD Mechanism	1. Screw (P1) x4	10-3

Note:

After removing the connector for the optical pickup from the connector, wrap the conductive aluminium foil around the front end of connector remove to protect the optical pickup from electrostatic damage.

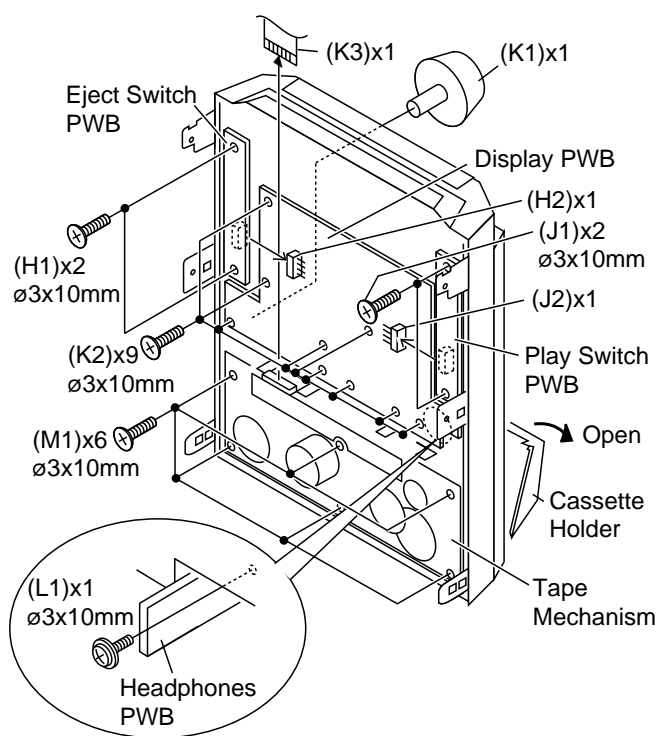


Figure 10-2

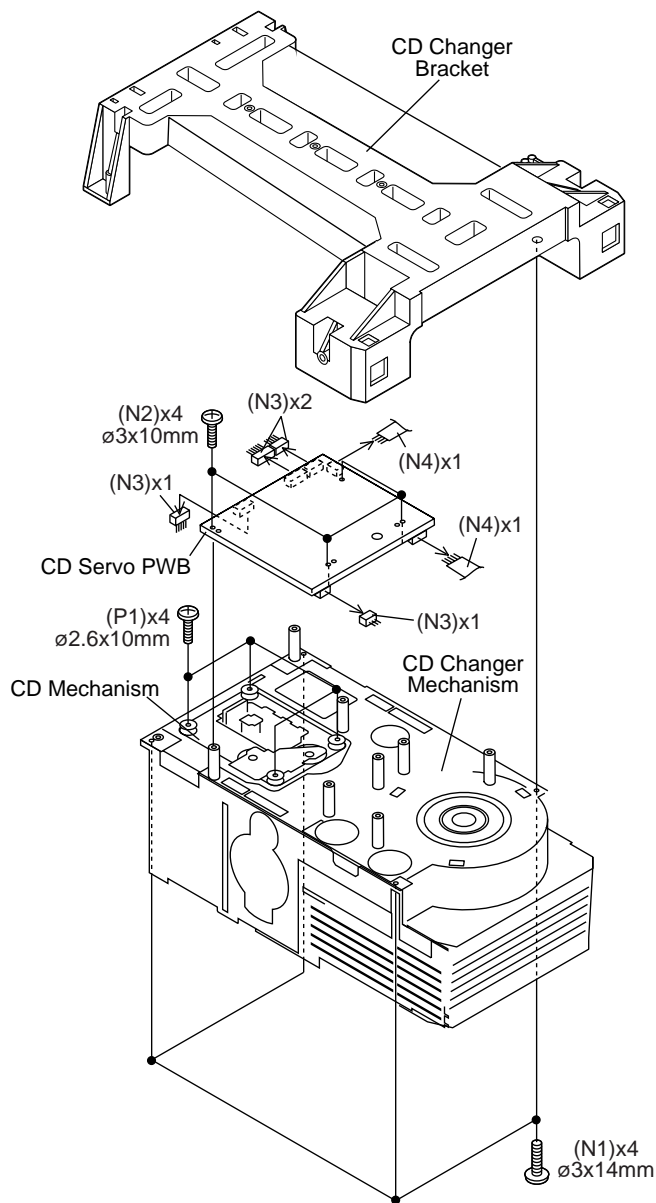


Figure 10-3

CP-BA3100			
STEP	REMOVAL	PROCEDURE	FIGURE
1	Side Panel/ Front Panel	1. Screw (A1) x4 2. Net (A2) x1 3. Catching Holder (A3) x4 4. Screw (A4) x4	11-1
2	Subwoofer	1. Screw (B1) x4	11-2
3	Woofer	1. Screw (C1) x4	11-2
4	Tweeter	1. Screw (D1) x2	11-2

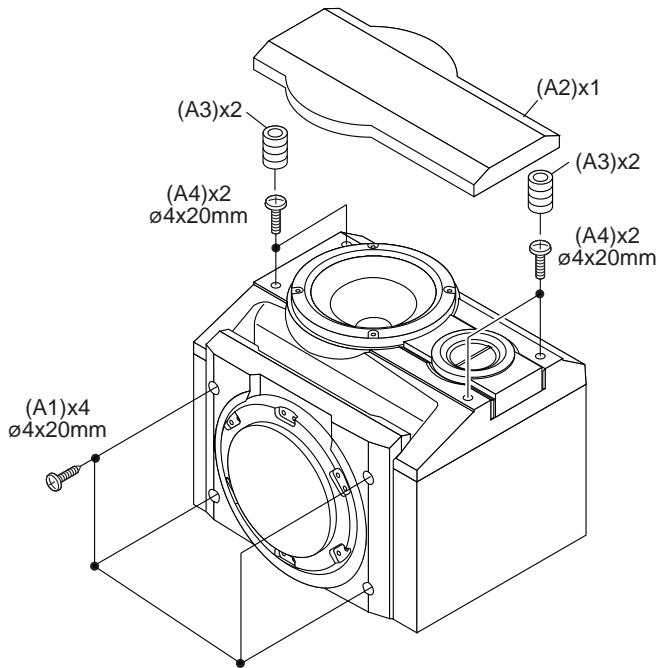


Figure 11-1

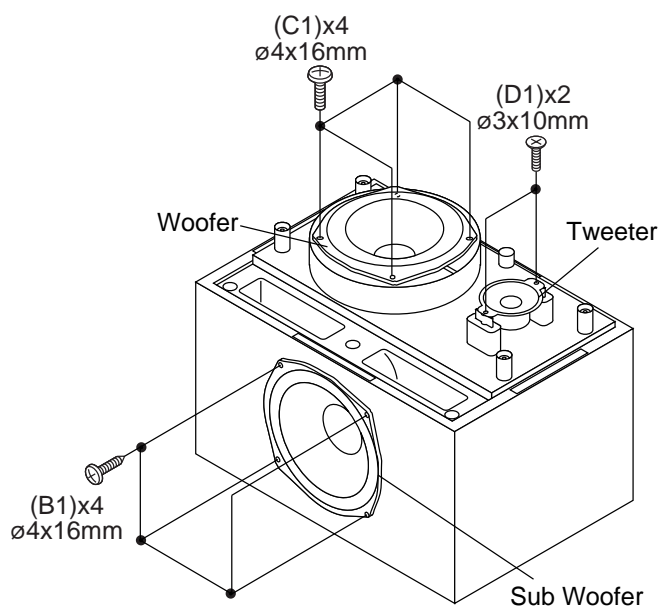


Figure 11-2

REMOVING AND REINSTALLING THE MAIN PARTS

TAPE MECHANISM SECTION

Perform steps 1 to 4 and 7 of the disassembly method to remove the tape mechanism. (See page 9.)

How to remove the record/playback and erase heads (TAPE 2) (See Fig. 12-1)

1. When you remove the screws (A1) x 2 pcs., the recording/playback head and three-dimensional head of the erasing head can be removed.

How to remove the playback head (TAPE 1) (See Fig. 12-2)

1. When you remove the screws (B1) x 2 pcs., the playback head.

How to remove the pinch roller (TAPE 1/2) (See Fig. 12-3)

1. Carefully bend the pinch roller pawl in the direction of the arrow <A>, and remove the pinch roller (C1) x 1 pc., in the direction of the arrow .

Note:

When installing the pinch roller, pay attention to the spring mounting position.

How to remove the belt (TAPE 2) (See Fig. 12-4)

1. Remove the main belt (D1) x 1 pc., from the motor side.
2. Remove the FF/REW belt (D2) x 1 pc.

How to remove the belt (TAPE 1) (See Fig. 12-4)

1. Remove the main belt (E1) x 1 pc., from the motor side.
2. Remove the FF/REW belt (E2) x 1 pc.

How to remove the motor (See Fig. 12-5)

1. Remove the screws (F1) x 2 pcs., to remove the motor.

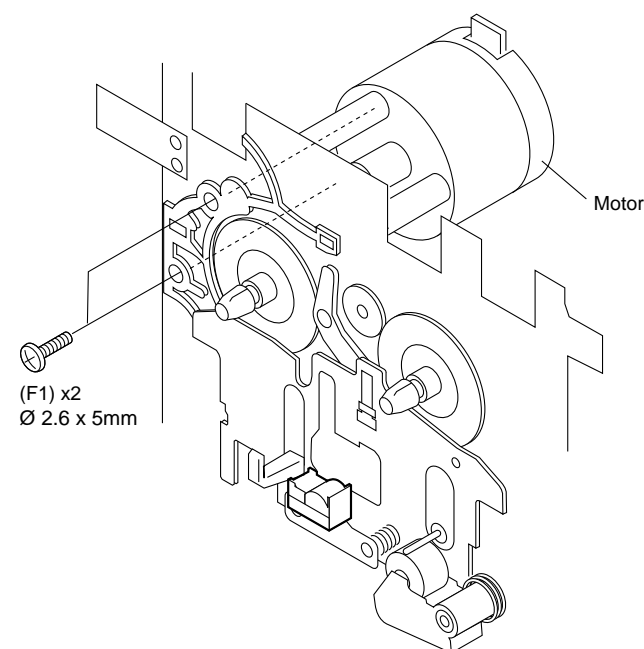


Figure 12-5

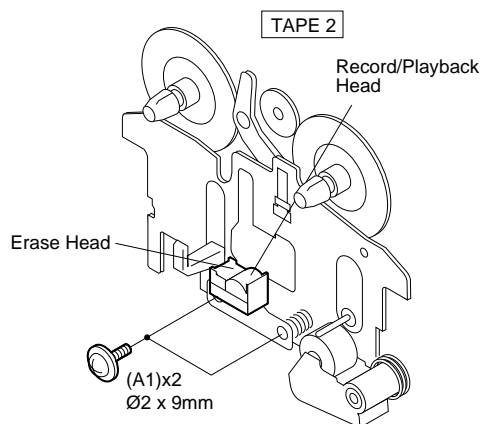


Figure 12-1

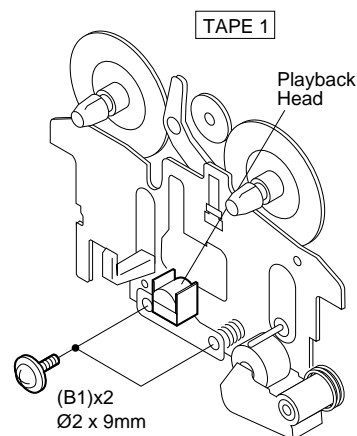


Figure 12-2

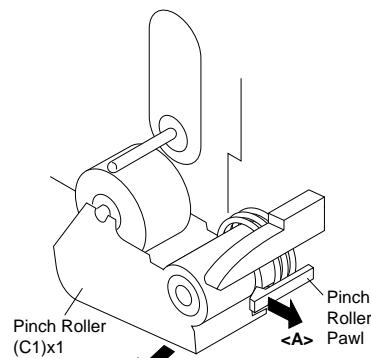


Figure 12-3

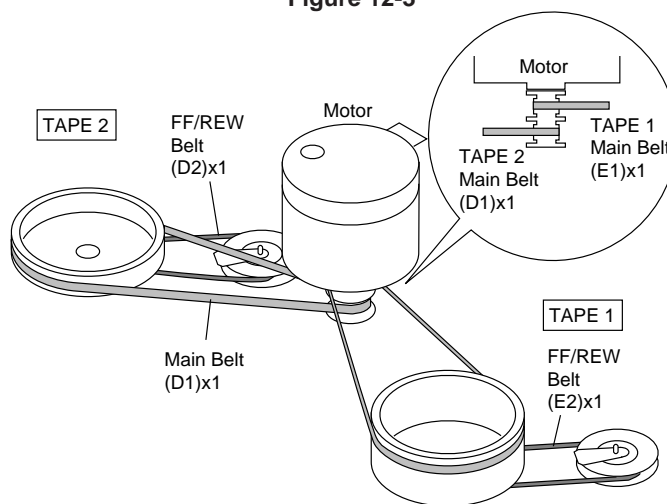


Figure 12-4

CD MECHANISM SECTION

Perform steps 1 to 5 of the disassembly method to remove the CD mechanism. (See page 10.)

How to Remove the pickup (See Fig. 13-1)

1. Remove the screws (A1)x 2 pcs., to remove shaft (A2)x 1 pc.
2. Remove stop washer (A3)x 1 pc., to remove gear (A4)x 1 pc.
3. Remove the pickup.

Note:

After removing the connector for the optical pickup from the connector, wrap the conductive aluminium foil around the front end of connector remove to protect the optical pickup from electrostatic damage.

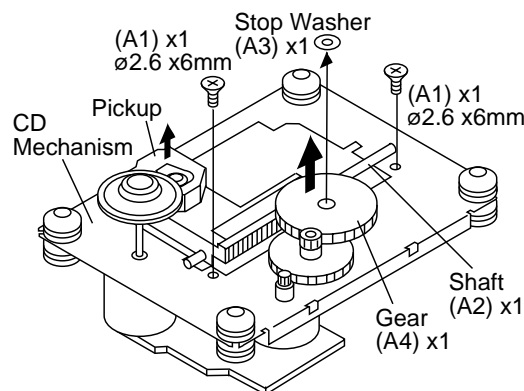


Figure 13-1

CD CHANGER MECHANISM SECTION

Perform steps 1 to 5 of the disassembly method to remove the CD changer mechanism. (See page 10.)

How to Remove the tray motor/main cam motor (See Fig. 13-2)

1. Remove the screws (B1)x 4 pcs., to remove the CD Servo PWB.
2. Remove the (1) front top plate, (2) changer box, left/right and (3) disc trays 1~6. After that, disassemble as shown in the figure.
3. Remove the screws (B2)x 4 pcs.
4. Remove the tray motor and main cam motor.

Note:

The parts of (1), (2) and (3) correspond to the drawing Nos. 117, 102, 103 and 108 to 113 of the CD change mechanism disassembly drawing.

Remove the screws of 117, 102 and 103, and the parts of (1), (2) and (3) will be ready for removal and the screws of the tray motor and main cam motor will be visible.

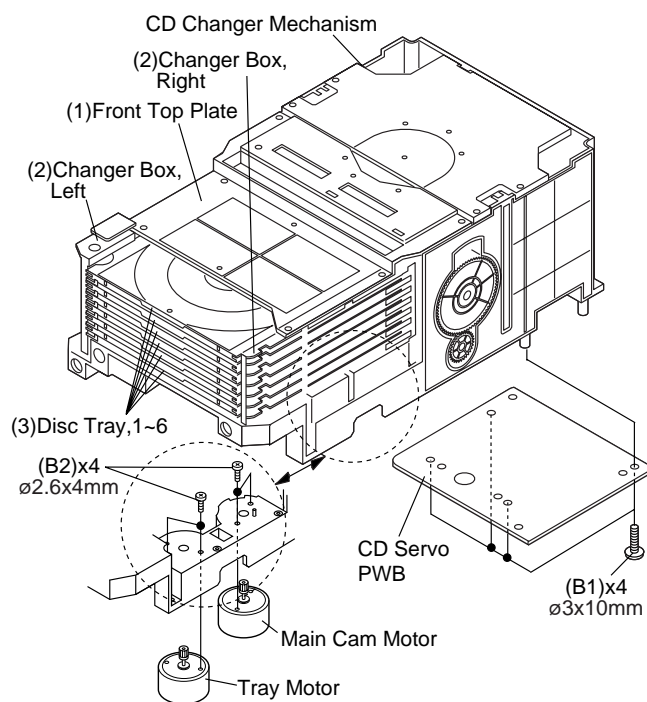


Figure 13-2

ADJUSTMENT

MECHANISM SECTION

• Driving Force Check

Torque Meter	Specified Value
Play: TW-2111	Tape 1: Over 80 g Tape 2: Over 80 g

• Torque Check

Torque Meter	Specified Value	
	Tape 1	Tape 2
Play: TW-2111	30 to 80 g.cm	30 to 80 g.cm
Fast forward: TW-2231	—	70 to 180 g.cm
Rewind: TW-2231	—	70 to 180 g.cm

• Tape Speed

	Test Tape	Adjusting Point	Specified Value	Instrument Connection
Normal speed	MTT-111	Variable Resistor in motor.	3,000 ± 30 Hz	Speaker Terminal (Load resistance: 6 ohms)

TAPE MECHANISM

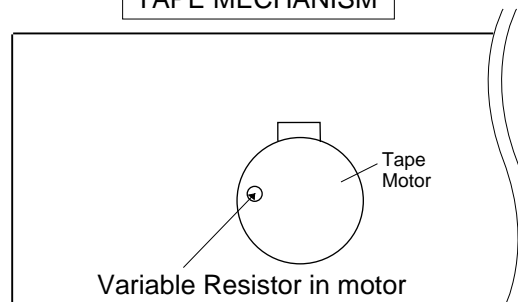


Figure 13-3

CD-BA3100

TUNER SECTION

fL: Low-range frequency

fH: High-range frequency

• AM IF/RF

Signal generator: 400 Hz, 30%, AM modulated

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Parts	Instrument Connection
AM IF	450 kHz	1,720 kHz	T351	*1
AM Band Coverage	—	530 kHz	(fL): T306 1.1 ± 0.1 V	*2
AM Tracking	990 kHz	990 kHz	(fL): T303	*1

*1. Input: Antenna Output: TP302

*2. Input: Antenna Output: TP301

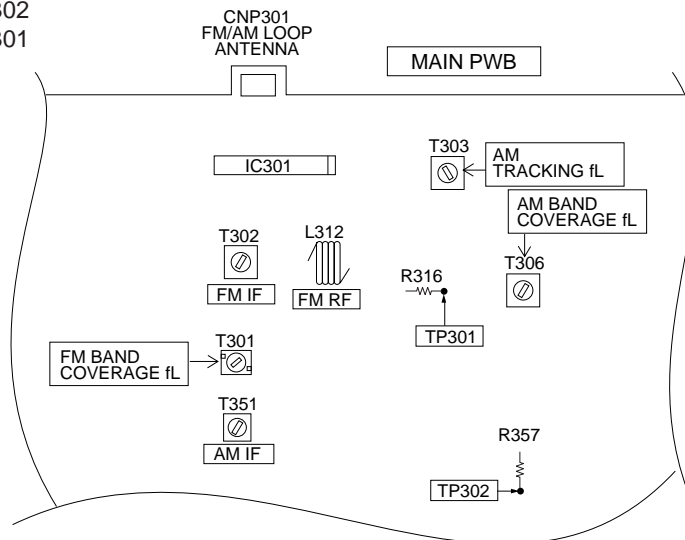


Figure 14-1 ADJUSTMENT POINTS

• FM RF

Signal generator: 1 kHz, 75 kHz dev., FM modulated

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Point	Instrument Connection
FM Band Coverage	—	87.50 MHz	T301(fL): 1.3 V ± 50 mV	*1
FM RF	98.00 MHz (10-30 dB)	98.00 MHz	L312	*2

*1. Input: Antenna Output: TP301

*2. Input: Antenna Output: Speaker terminal

CD SECTION

• Adjustment

Since this CD system incorporates the following automatic adjustment functions, readjustment is not needed when replacing the pickup. Therefore, different PWBs and pickups can be combined freely.

Each time a disc is changed, these adjustments are performed automatically. Therefore, playback of each disc can be performed under optimum conditions.

Items adjusted automatically

- Offset adjustment (The offset voltage between the head amplifier output and the VREF reference voltage is compensated inside the IC.)
 - * Focus offset adjustment
 - * Tracking offset adjustment
- Tracking balance adjustment (waveform drawing Fig.14-2 EFBL)
- Gain adjustment (The gain is compensated inside the IC so that the loop gain at the gain crossover frequency will be 0 dB.)
 - * Focus gain adjustment
 - * Tracking gain adjustment

CD ERROR CODE DESCRIPTION

Error	State Code
ER-CD00	[Pickup Mechanism Error]
ER-CD01	Pickup mechanism error Pu-in SW detection NG
ER-CD10	[CD Changer Mechanism Error]
ER-CD11	Changer error Initial error
ER-CD20	Tray error

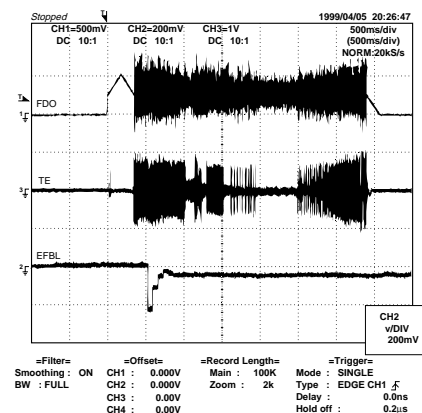


Figure 14-2

TEST MODE

During POWER OFF mode, push below each 2 keys and [POWER] key. Then go to each Test Mode.

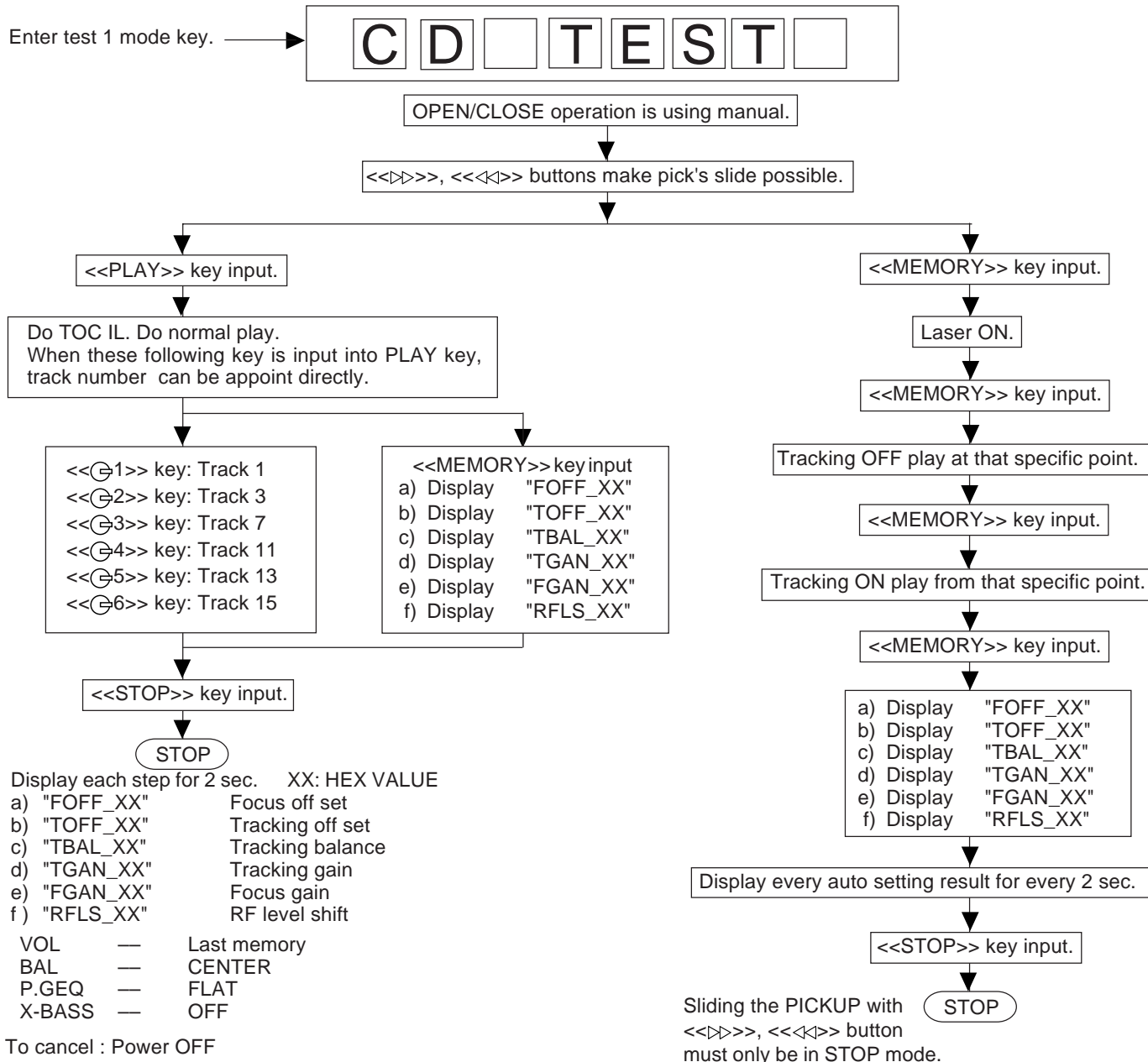
KEY	TEST MODE	CONTENTS
[CD] [X-BASS] + [POWER]	TEST 1	CD Test mode
[TAPE] [X-BASS] + [POWER]	TEST 2	Tape test mode
[TUNER] [X-BASS] + [POWER]	TEST 3	Tuner preset memory clear
[VIDEO/AUX] [X-BASS] + [POWER]	TEST 4	Tuner preset for production
[MEMORY/SET] [X-BASS] + [POWER]	TEST 5	All clear (reset)
[EQUALIZER] [X-BASS] + [POWER]	TEST 6	Audio test
[■] [DIMMER] + [POWER]	TEST 7	Key and display test
[TUN UP] [DIMMER] + [POWER]	TEST 8	RDS Test1
[TUN DOWN] [DIMMER] + [POWER]	TEST 9	RDS Test2
[◀◀] [CD] + [POWER]	TEST 10	CD Changer test
[▶▶] [CD] + [POWER]	TEST 11	Production initialize for changer
[EQUALIZER] [TUN UP] + [POWER]	TEST 12	Graphic equalizer test

CD TEST MODE

· Setting the test mode

Any one of test mode can be set by pressing several keys as follows.

<X-BASS> + <CD> + <POWER> TEST: CD operation test



CD CHANGER MECHANISM MAIN BASE PARTS ASSEMBLING/ADJUSTING PROCEDURE

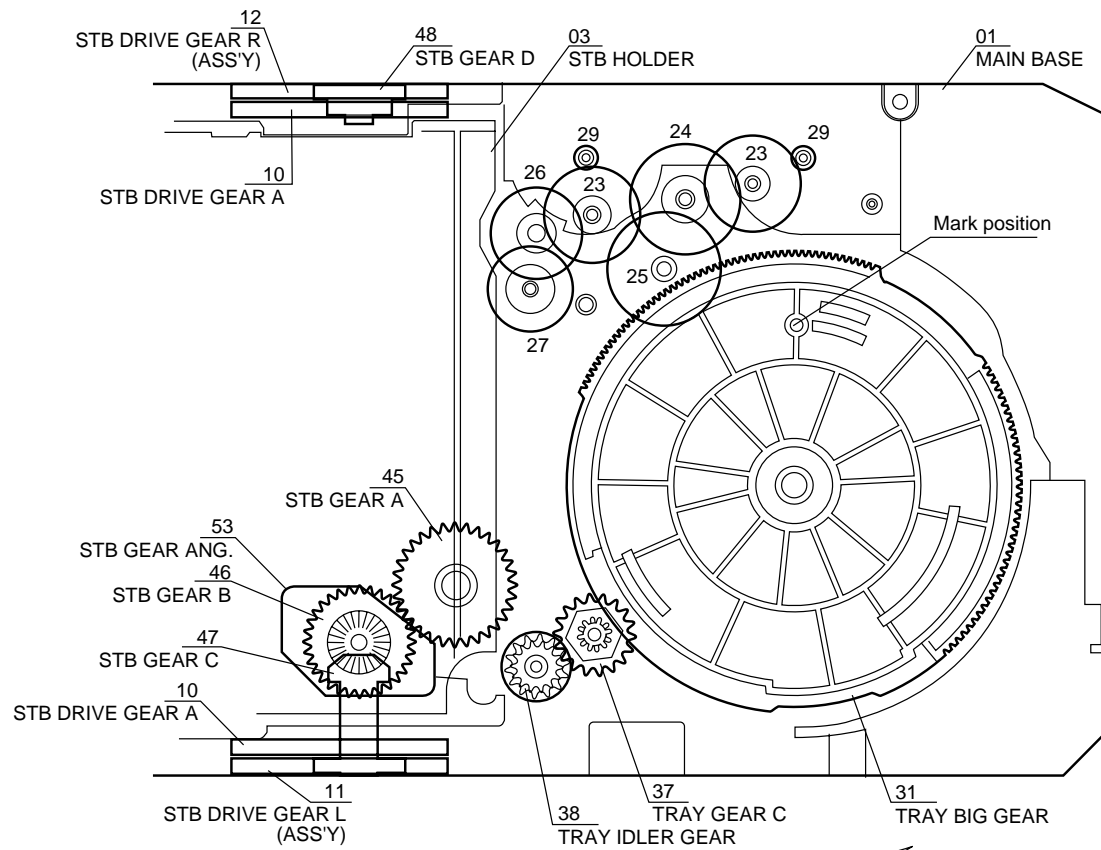
Work content	Applied part No.	Assembly fig. No.	Remarks
1. Motor assembly (x 2) mounting (screw x 4)	01/29	Fig.17	
2. MT idle gear mounting (screw x 1)	25	Fig.17	
3. MT system gear assembly	23/24/26/27	Fig.17	
4. STB/tray drive system gear and others assembling/ mounting (screw x 3)	37/38/45/46 (53)/47/48	Fig.17	
5. Tray big gear assembly	31	Fig.17	Gear positioning
6. T.M SW PWB mounting (screw x 3)		Fig.18	
7. STB holder assembling	03	Fig.17	
8. STB drive gear L/R assembly mounting (screw x 2)	11 (10)/12 (10)	Fig.17	
9. Tray joint gear R/tray drive gear R assembling	34/36	Fig.18	Gear positioning
10. Tray gear A/B assembling	32/33	Fig.18	Gear positioning
11. Lift gear B/C assembling	43/44	Fig.19	Gear positioning
12. MT idler gear F assembling, mode big gear mounting (screw x 1)	28/42	Fig.19	
13. Change box R mounting (screw x 4)	04	Fig.19	
14. Lift gear A assembling	42	Fig.19	Gear positioning
15. Change box L assembly mounting (screw x 4)	02/30/35	Fig.20	
16. Lift cam assembling (shaft inserting)	44	Fig.20	Gear positioning
17. STB holder height adjusting		Fig.21	Check/adjustment
18. Top plate F/disc OB LEV. Mounting (screw x 6)	80	Fig.21	
19. Trays 1 - 6 assembling	91/92/93/94/95/96	Fig.22	
20. Top plate R mounting (screw x 6)		—	

CD CHANGER MECHANISM PARTS LIST

No.	Part name
01 (101)	MAIN BASE
02 (102)	CHANGE BOX L
03 (147)	STB HOLDER
04 (103)	CHANGE BOX R
10 (119)	STB DRIVE GEAR A
11 (120)	STB DRIVE GEAR L
12 (122)	STB DRIVE GEAR R
20 (149)	STABILIZER FH
23 (141)	MT IDLER GEAR A
24 (138)	MT IDLER GEAR B
25 (137)	MT IDLER GEAR C
26 (140)	MT IDLER GEAR D
27 (139)	MT IDLER GEAR E
28 (131)	MT IDLER GEAR F
29 (MOB1,2)	MOTOR GEAR
30 (143)	TRAY DRIVE GEAR F
31 (134)	TRAY BIG GEAR
32 (135)	TRAY GEAR A
33 (136)	TRAY GEAR B
34 (124)	TRAY DRIVE GEAR R
35 (144)	TRAY JOINT GEAR F
36 (125)	TRAY JOINT GEAR R
37 (142)	TRAY GEAR C
38 (130)	TRAY IDLER GEAR

No.	Part name
40 (115)	LIFT CAM
41 (126)	MODE BIG GEAR
42 (127)	LIFT GEAR A
43 (128)	LIFT GEAR B
44 (129)	LIFT GEAR C
45 (132)	STB GEAR A
46 (104)	STB GEAR B
47 (133-1)	STB GEAR C
48 (133-3)	STB GEAR D
50 (145)	LIFT LEVER
51 (106)	TRAY LOCK LEVER
52 (118)	DISC OB LEVER
53 (105)	STB GEAR ANG.
80 (117)	TOP PLATE F
81 (114)	TOP PLATE R
91 (108)	TRAY 1
92 (109)	TRAY 2
93 (110)	TRAY 3
94 (111)	TRAY 4
95 (112)	TRAY 5
96 (113)	TRAY 6

The number of () is the number of the parts guide.



After assembling TRAY BIG GEAR, turn it in the arrow direction.

TRAY BIG GEAR ASSEMBLING POSITION

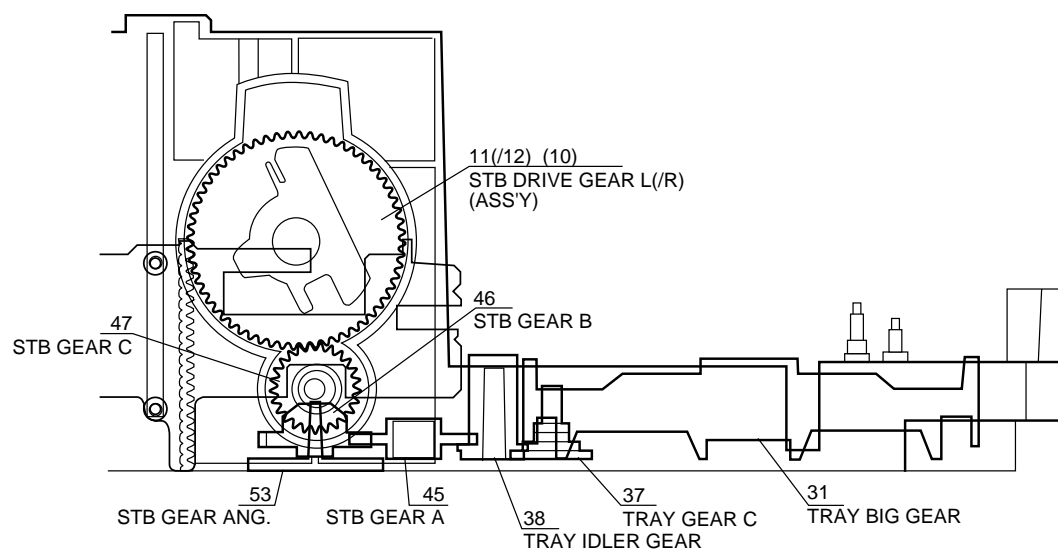


Figure 17

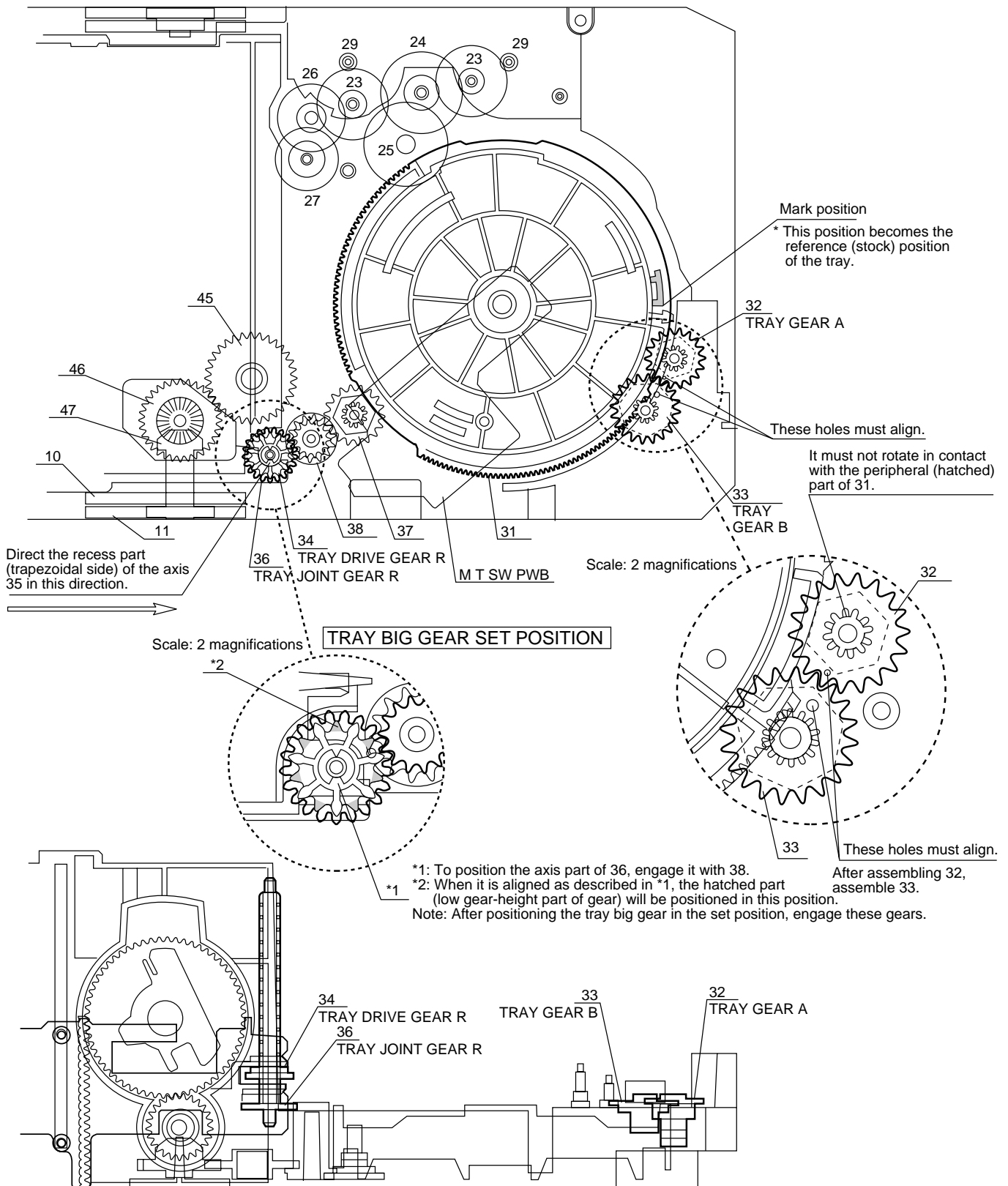


Figure 18

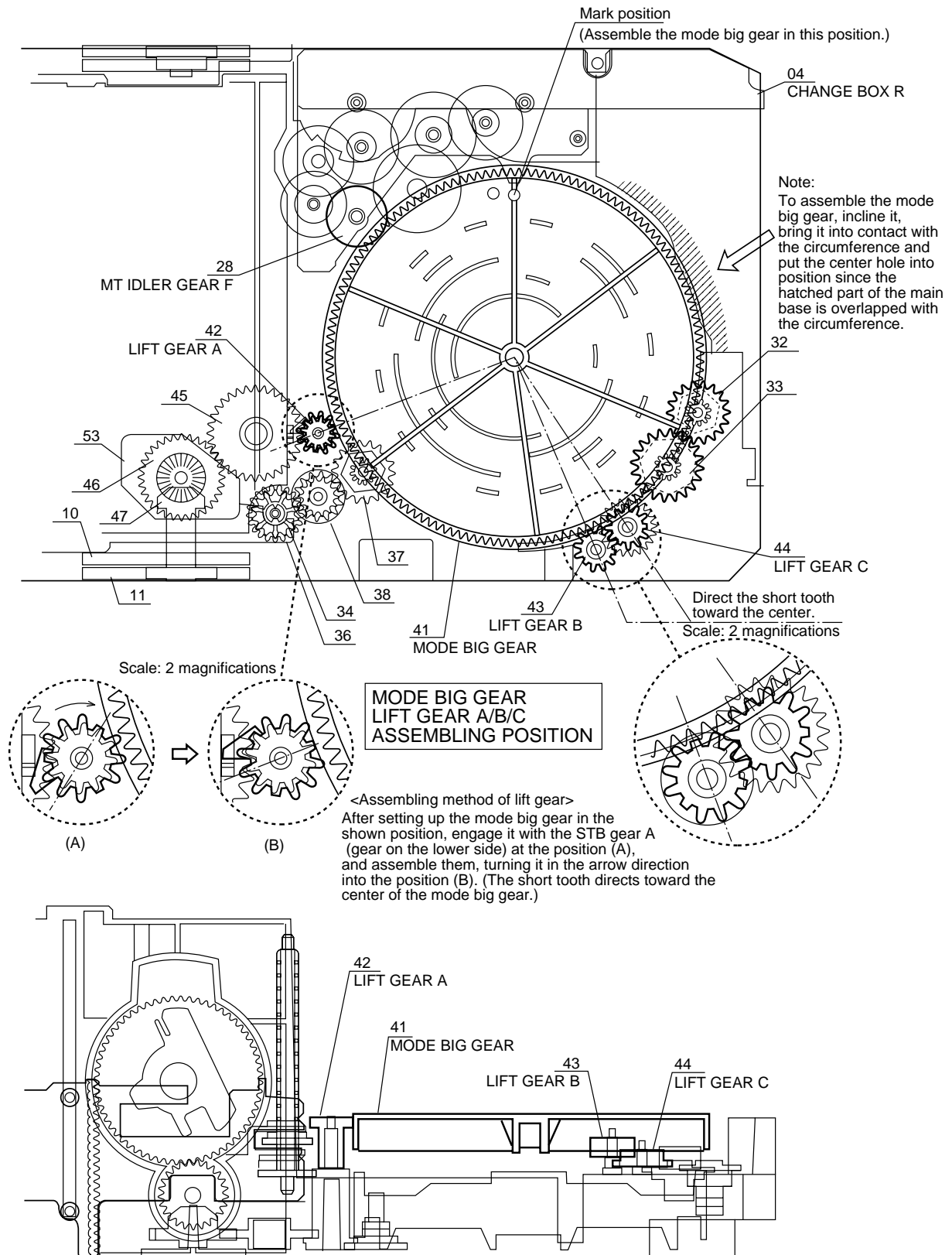


Figure 19

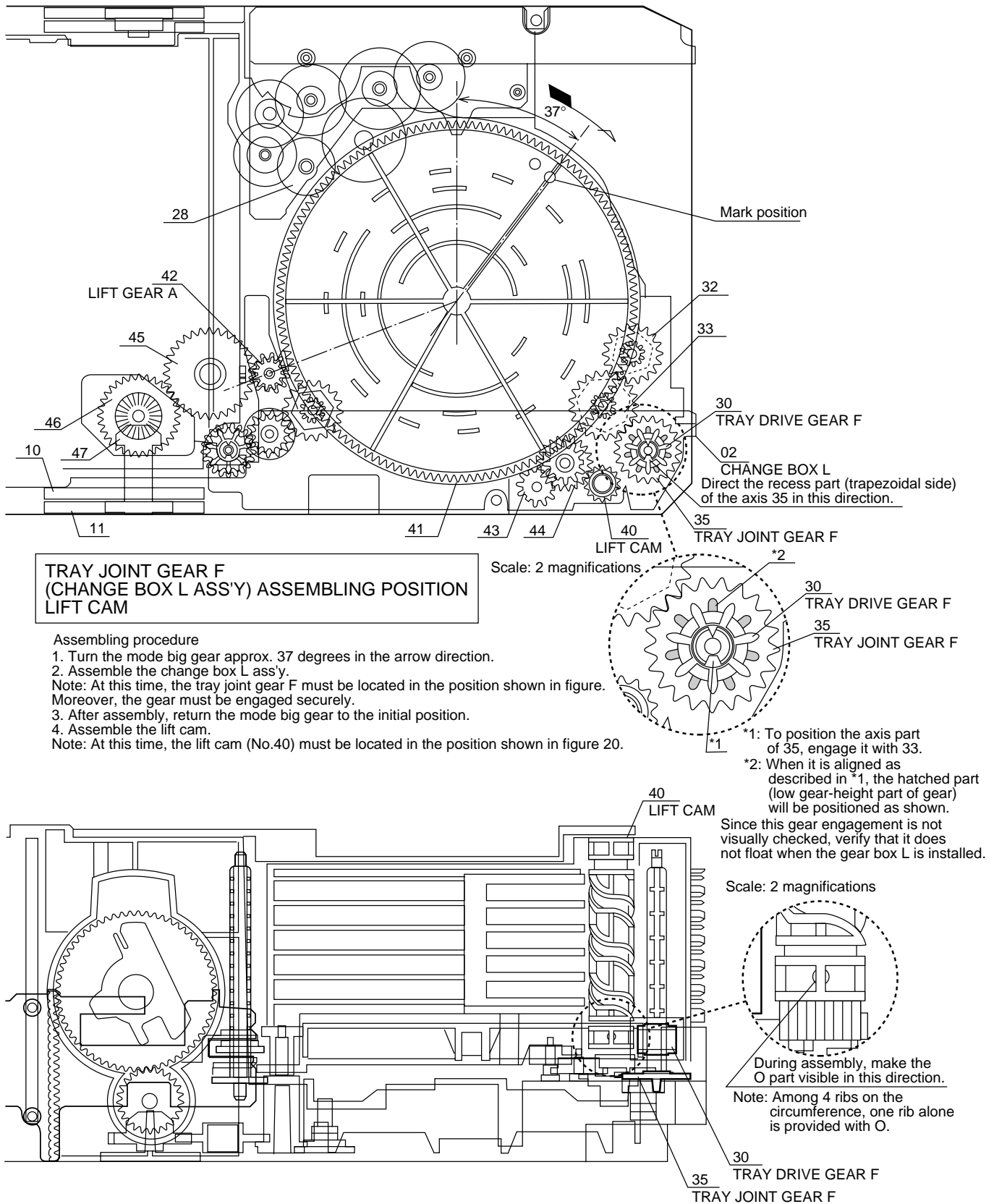
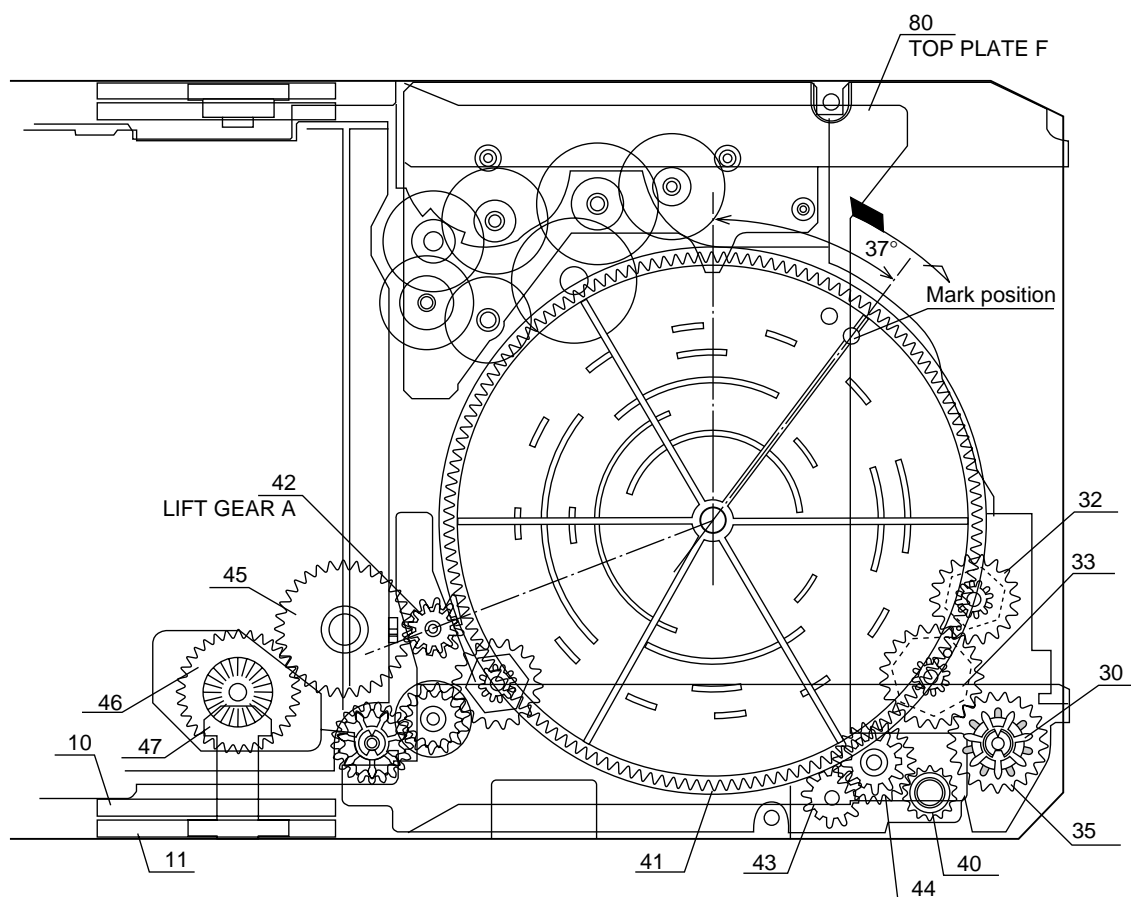


Figure 20



STB HOLDER HEIGHT ADJUSTING METHOD

When the height of
STB holder is low,
(Increase the clearance.)

When the height of
STB holder is high,
(Decrease the clearance.)

Adjusting procedure

1. Turn the mode big gear approx. 37 degrees in the arrow direction.
2. Viewing from the front side of the mechanism, verify that the guide ribs (CHANGE BOX L/R and STB HOLDER) of tray are as tall as each other.
3. If they are not, bend the lever for adjustment. (Refer to the details.)

Note: Also apply the same adjustment on the R side.

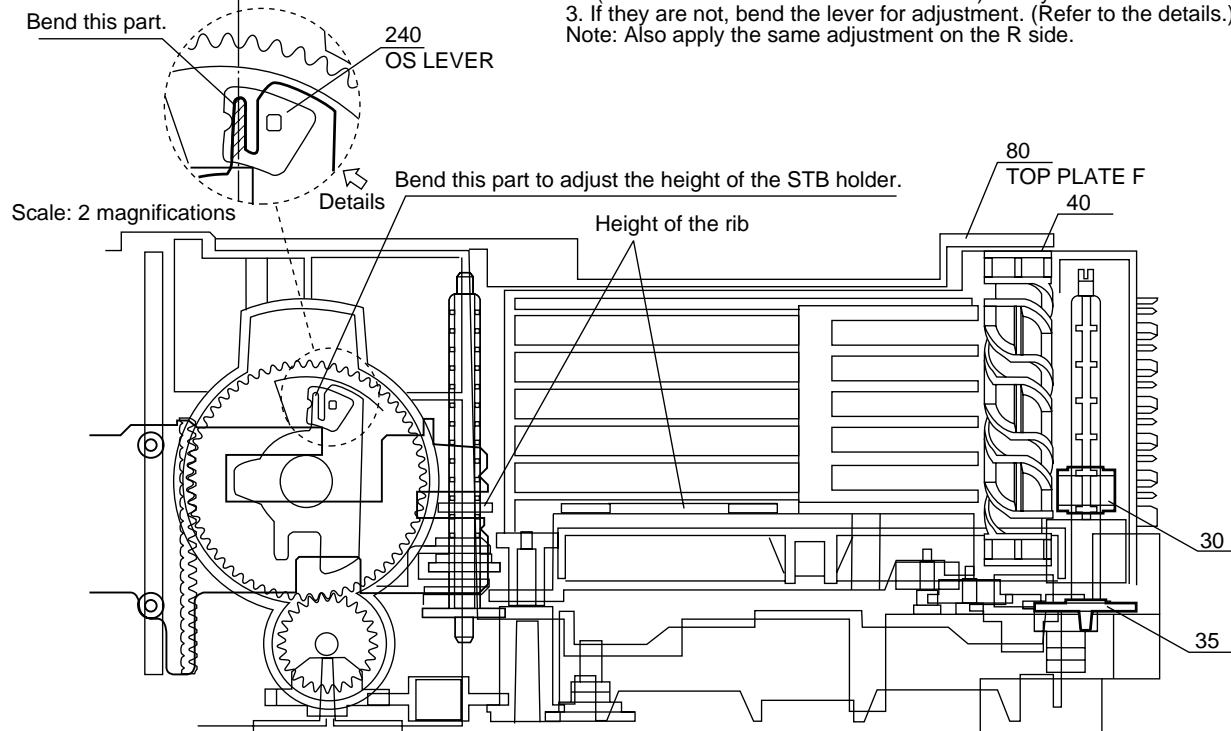


Figure 21

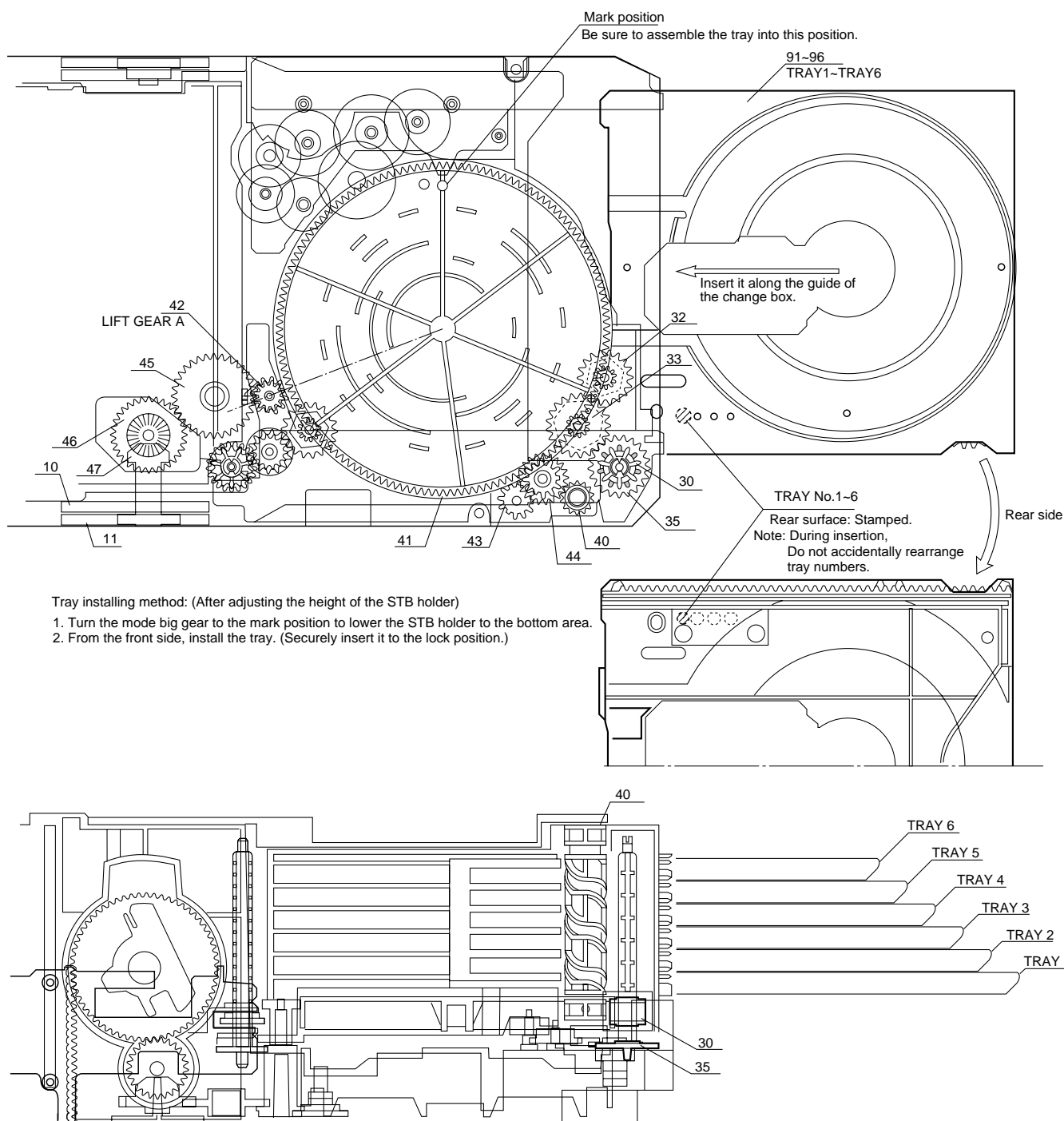


Figure 22

Measure to be taken when a disc cannot be removed due to a mechanism trouble

First, remove the mechanism unit section from the set, and check for the state of the disc.

(Remove the top plate R if necessary.)

<State of the disc>

- (1) When the disc is in the normal PLAY (chucking) position -> Try to eject the disc by turning the mode big gear/tray big gear manually.
* At this time, be sure to adjust the tray's position (height).
- (2) When the disc is in the normal STOCK position -> Try to eject the disc by turning the tray big gear manually.
* At this time, be sure to adjust the tray's position (height).
- (3) When the disc is not in the normal position -> The tray or disc is not in the normal position. (The tray or disc may catch somewhere.)

Remove the TOP PLATE F/DISC OB lever.

Unlock the tray lock lever and pull out the tray which is not caught.

Move the caught tray or disc and remove the disc.

In case of (1) and (2), the mechanism is normal (defective circuit parts, etc.). However, it may stop somewhere.

This is the reason why you should try to turn the tray big gear first.

In case of (3), either of the big gears does not turn.

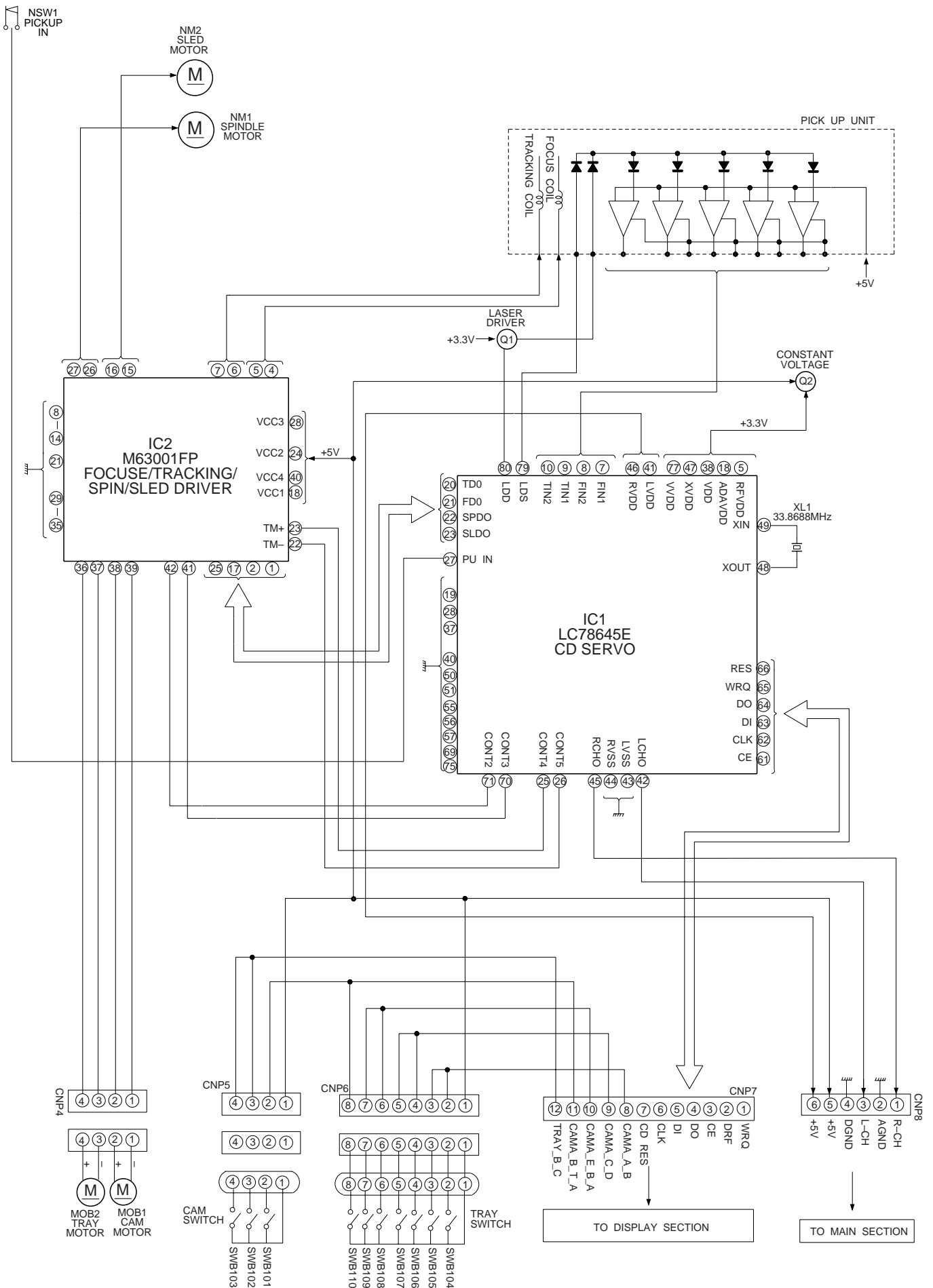


Figure 23 BLOCK DIAGRAM (1/3)

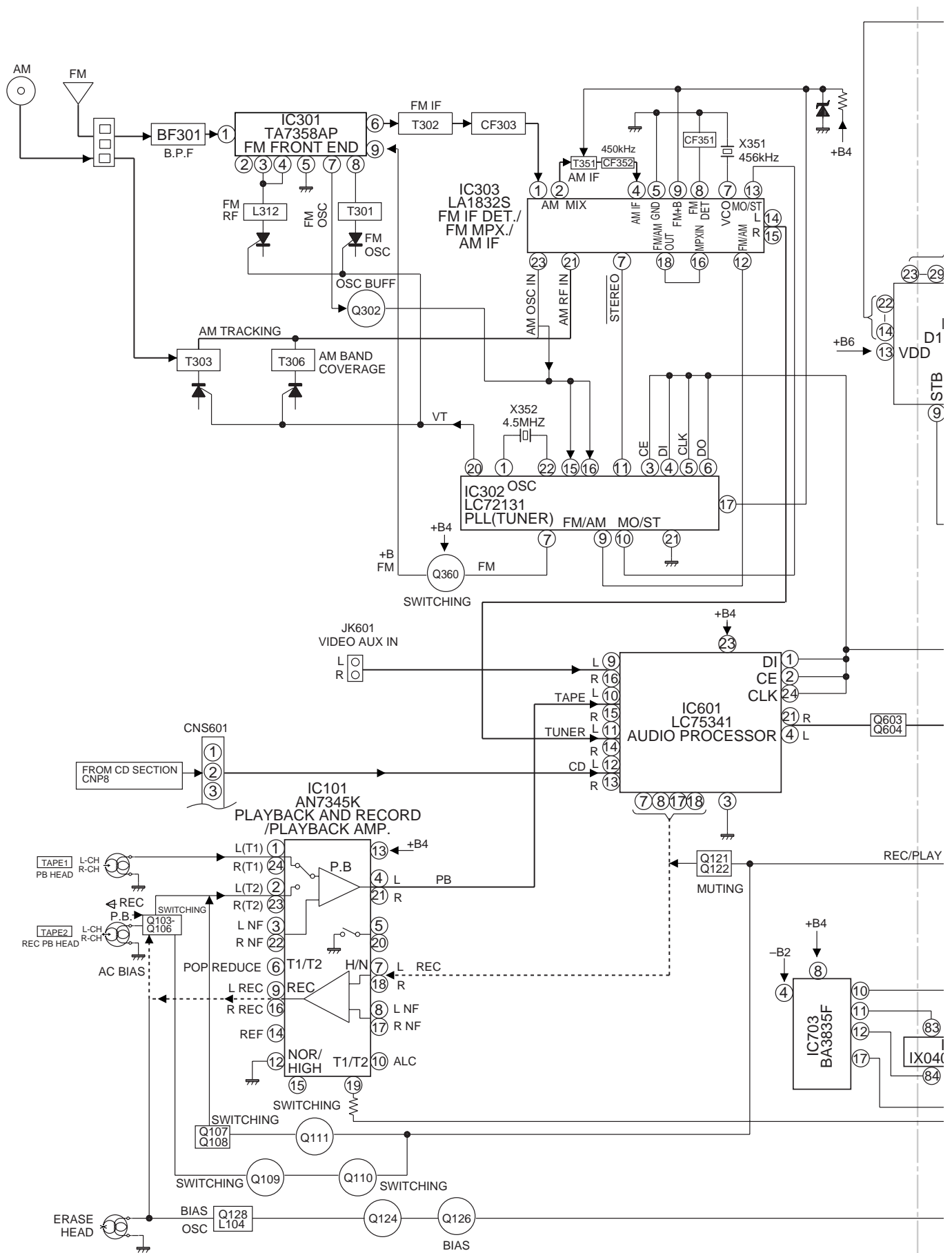


Figure 24 BLOCK DIAGRAM (2/3)

- 25 -

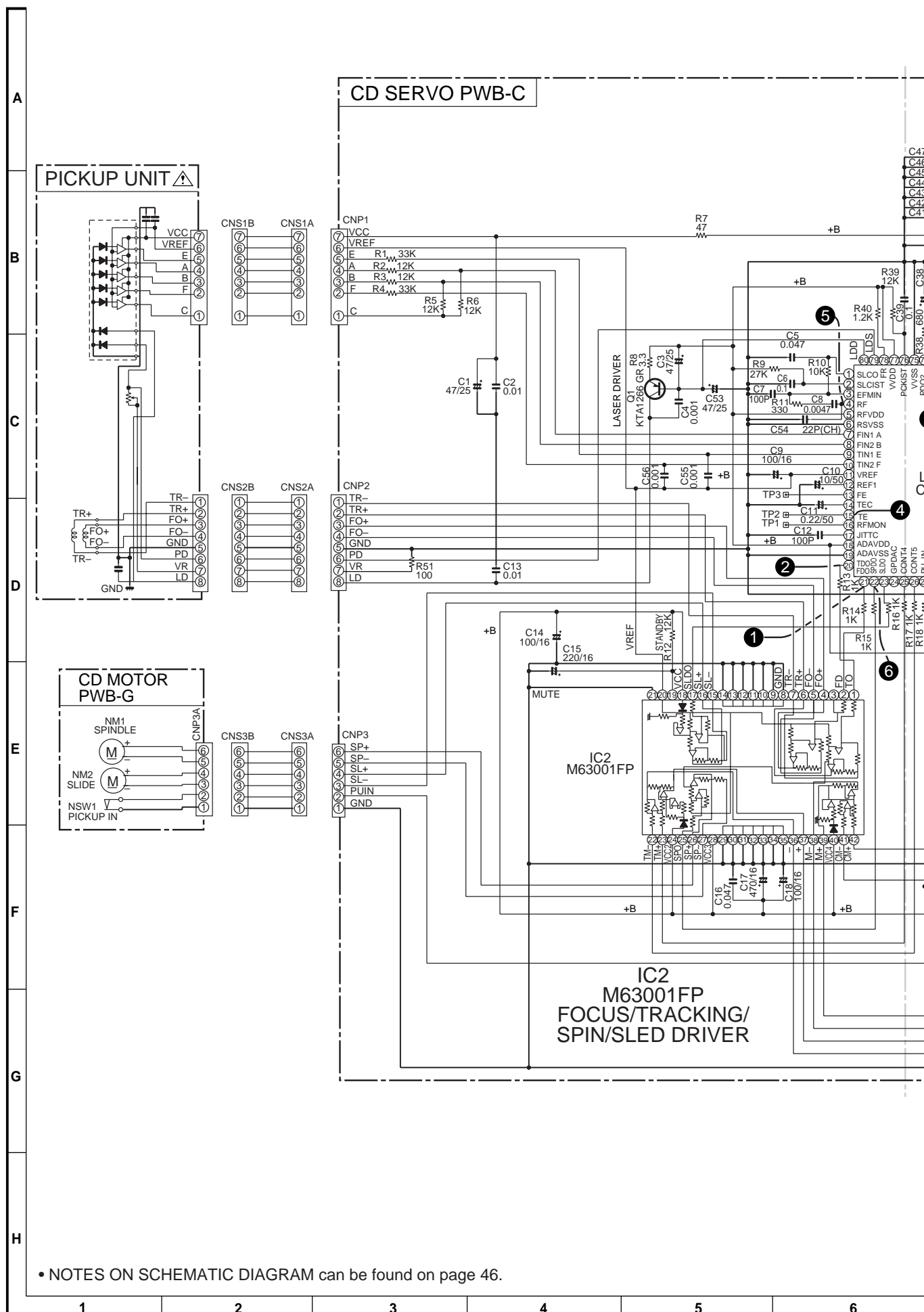
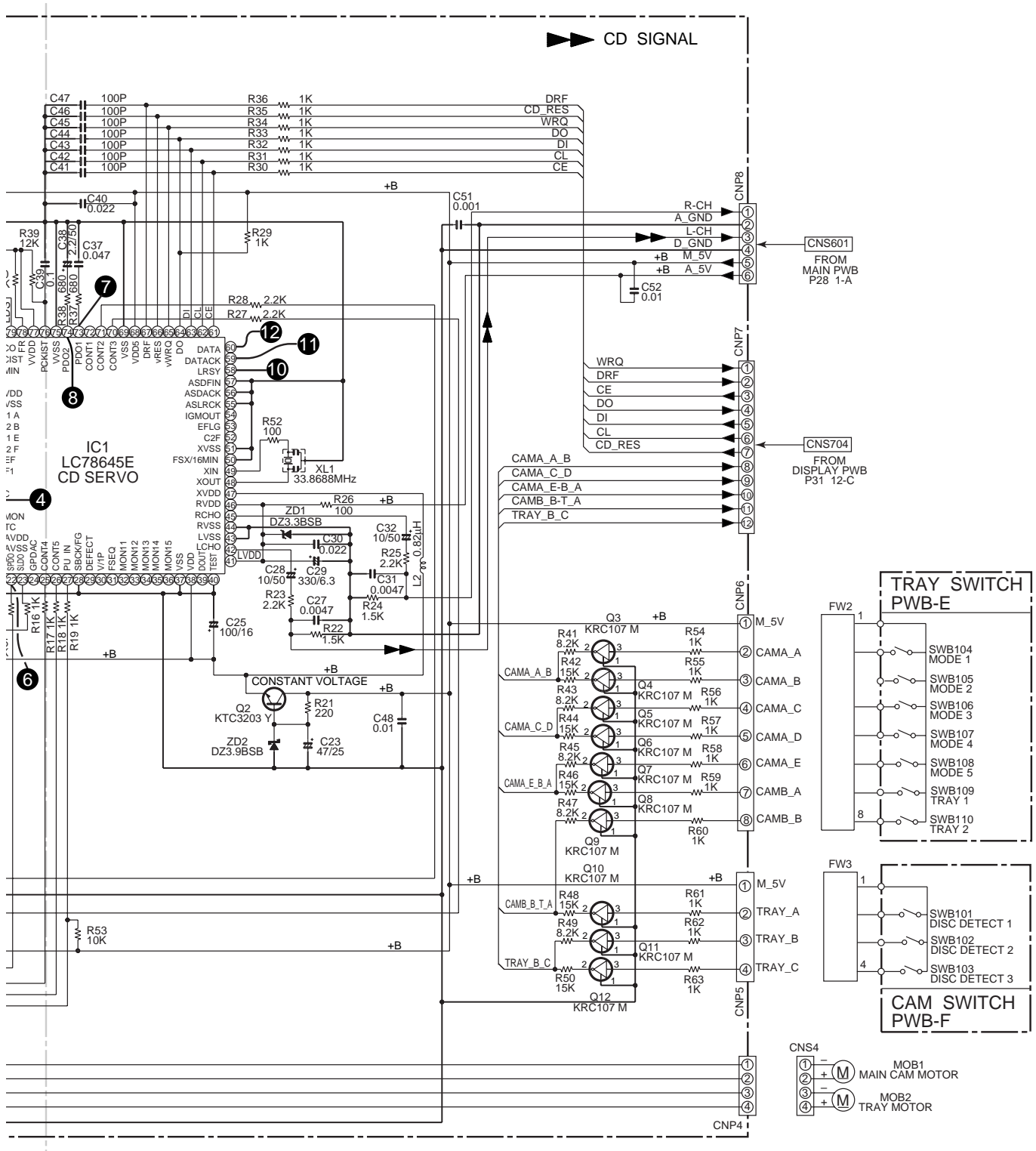


Figure26 SCHEMATIC DIAGRAM (1/10)



• The numbers ① to ⑫ are waveform numbers shown in page 47.

7	8	9	10	11	12
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Figure 27 SCHEMATIC DIAGRAM (2/10)

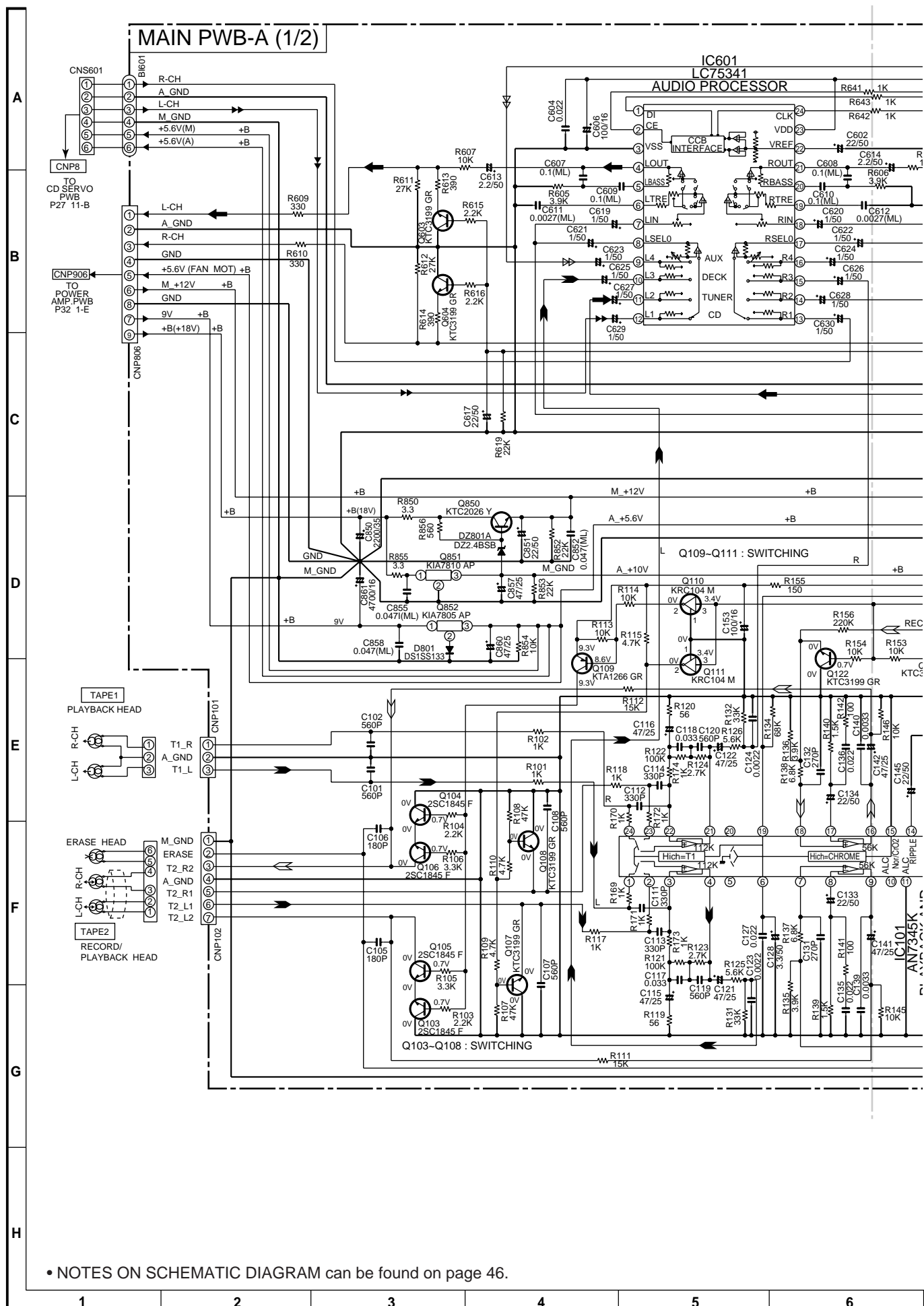


Figure 28 SCHEMATIC DIAGRAM (3/10)

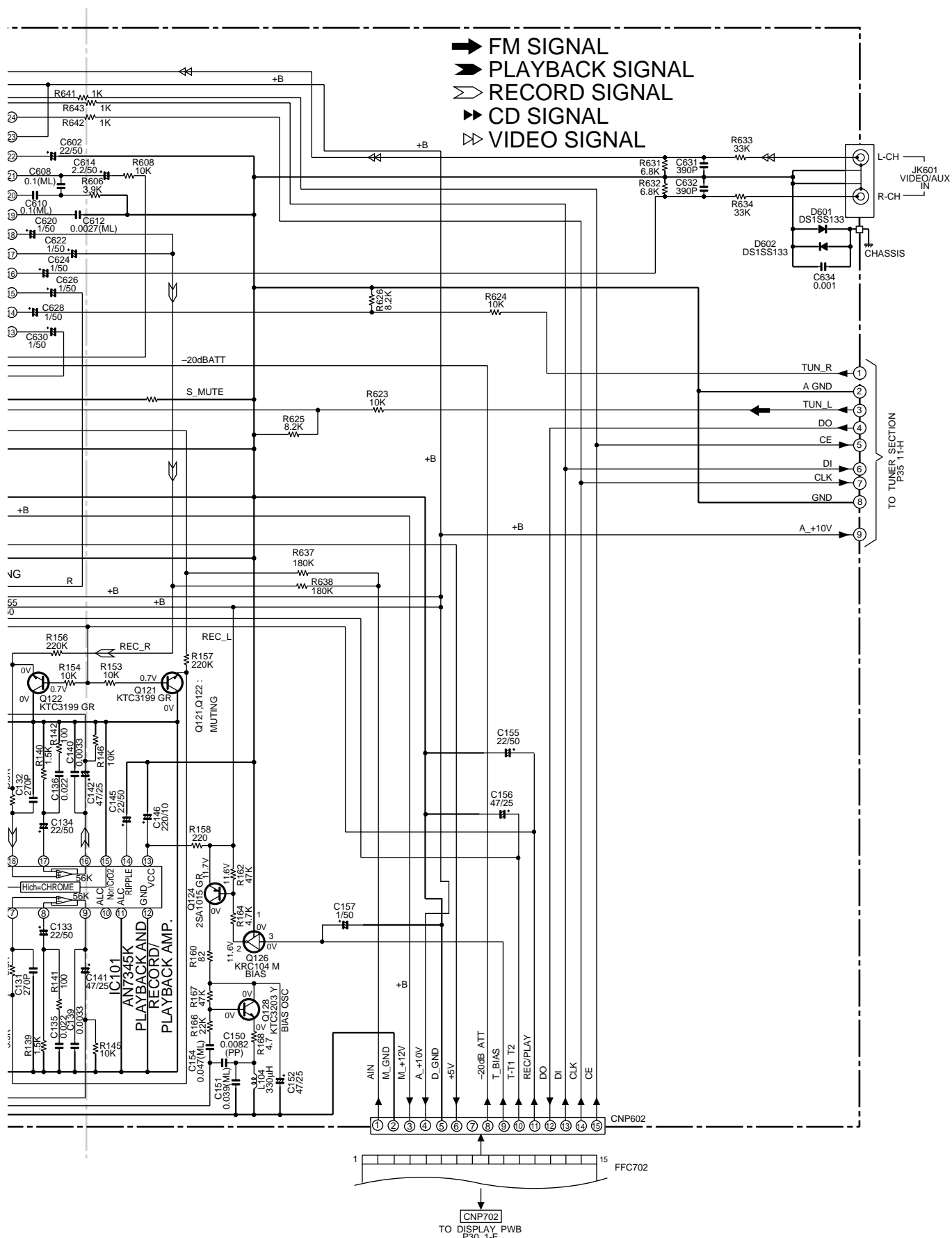


Figure 29 SCHEMATIC DIAGRAM (4/10)

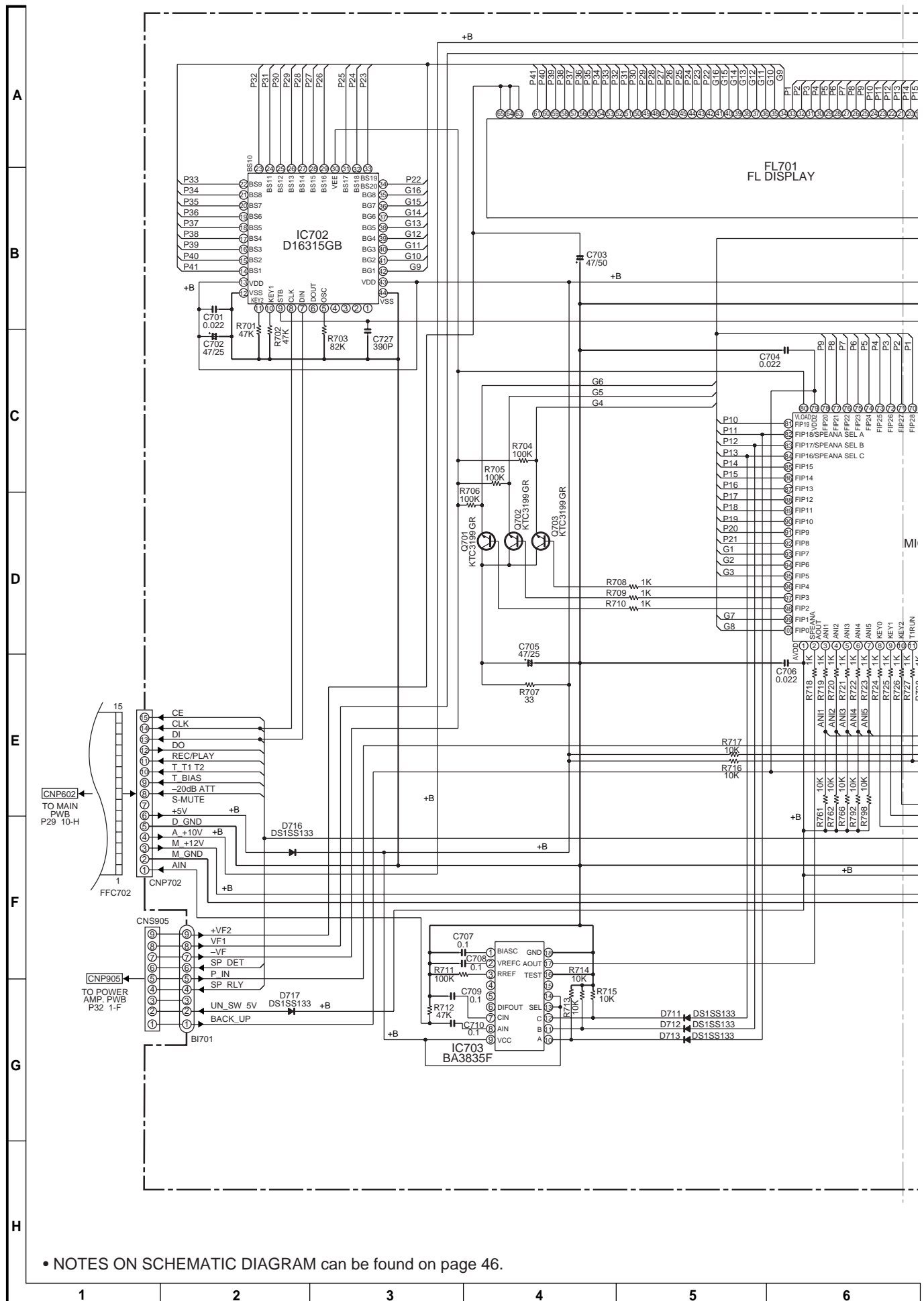
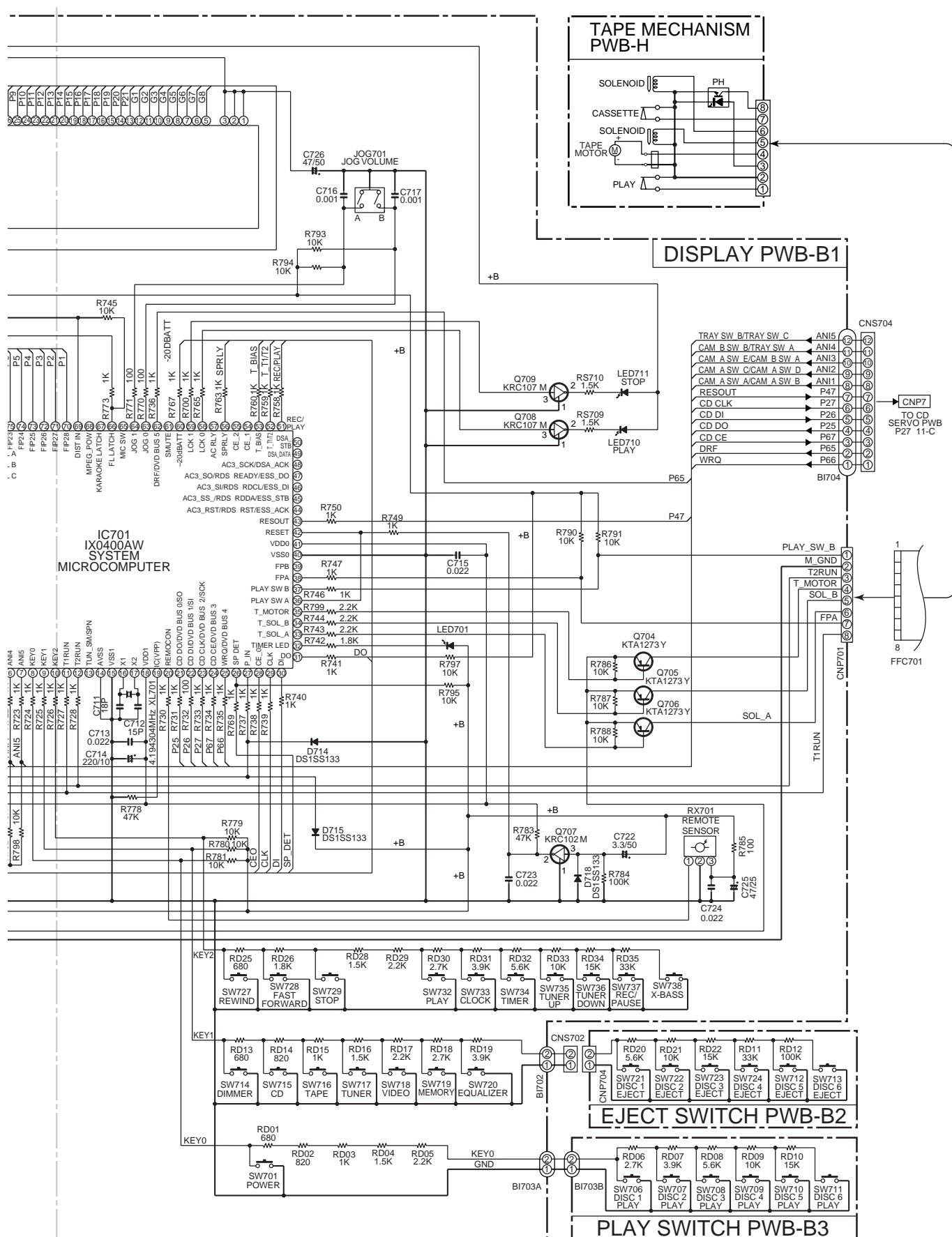


Figure 30 SCHEMATIC DIAGRAM (5/10)



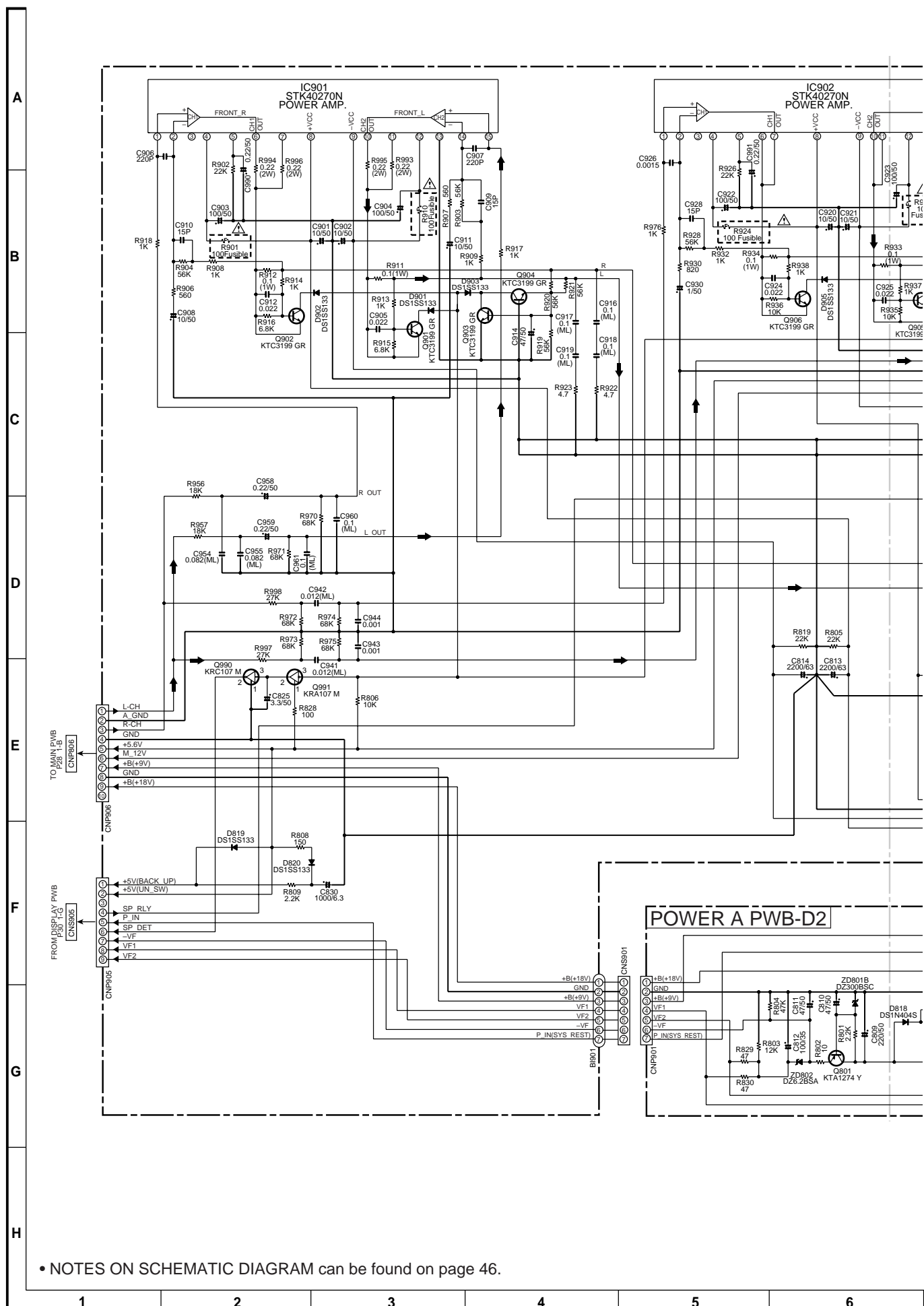


Figure 32 SCHEMATIC DIAGRAM (7/10)

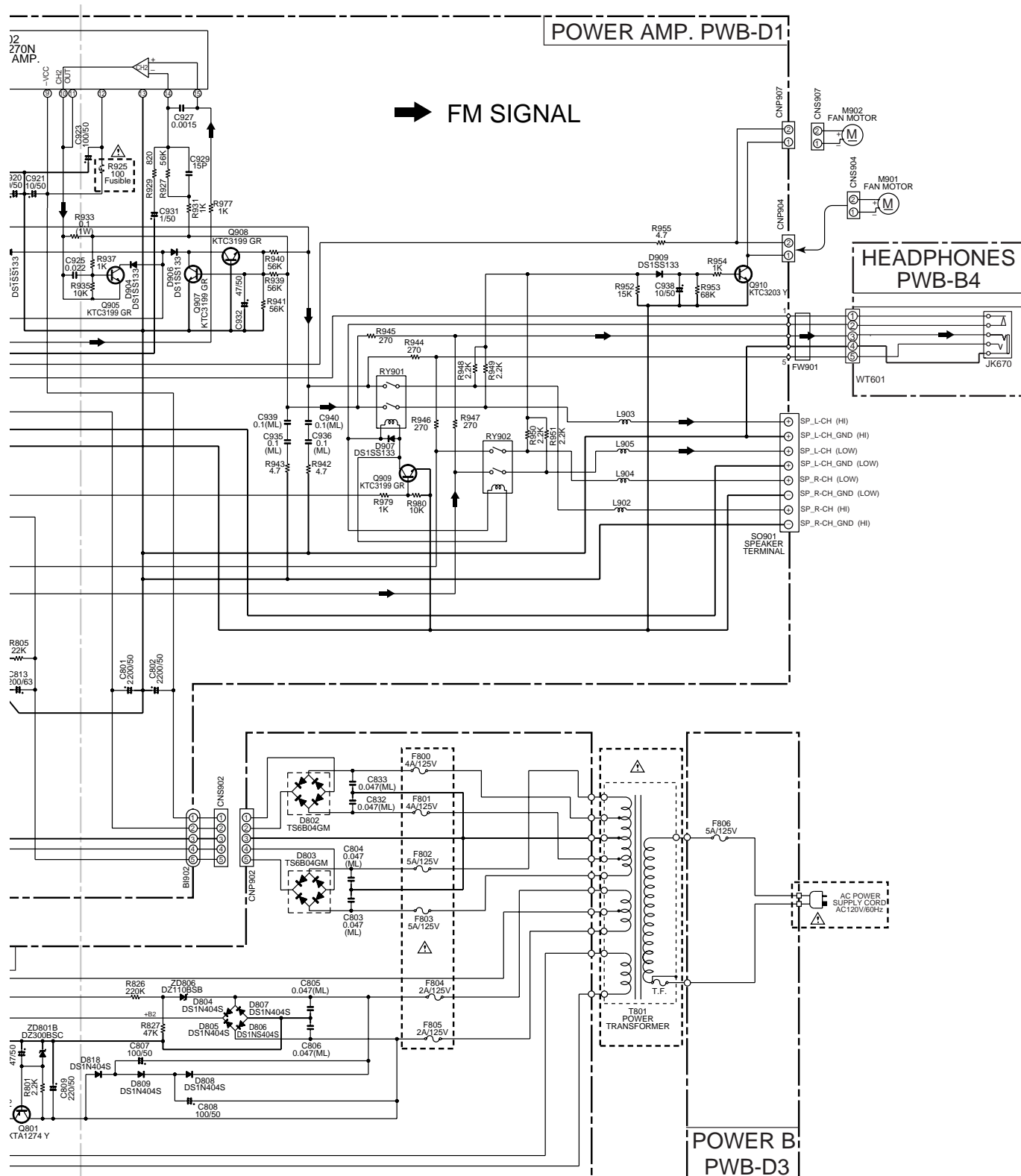


Figure 33 SCHEMATIC DIAGRAM (8/10)

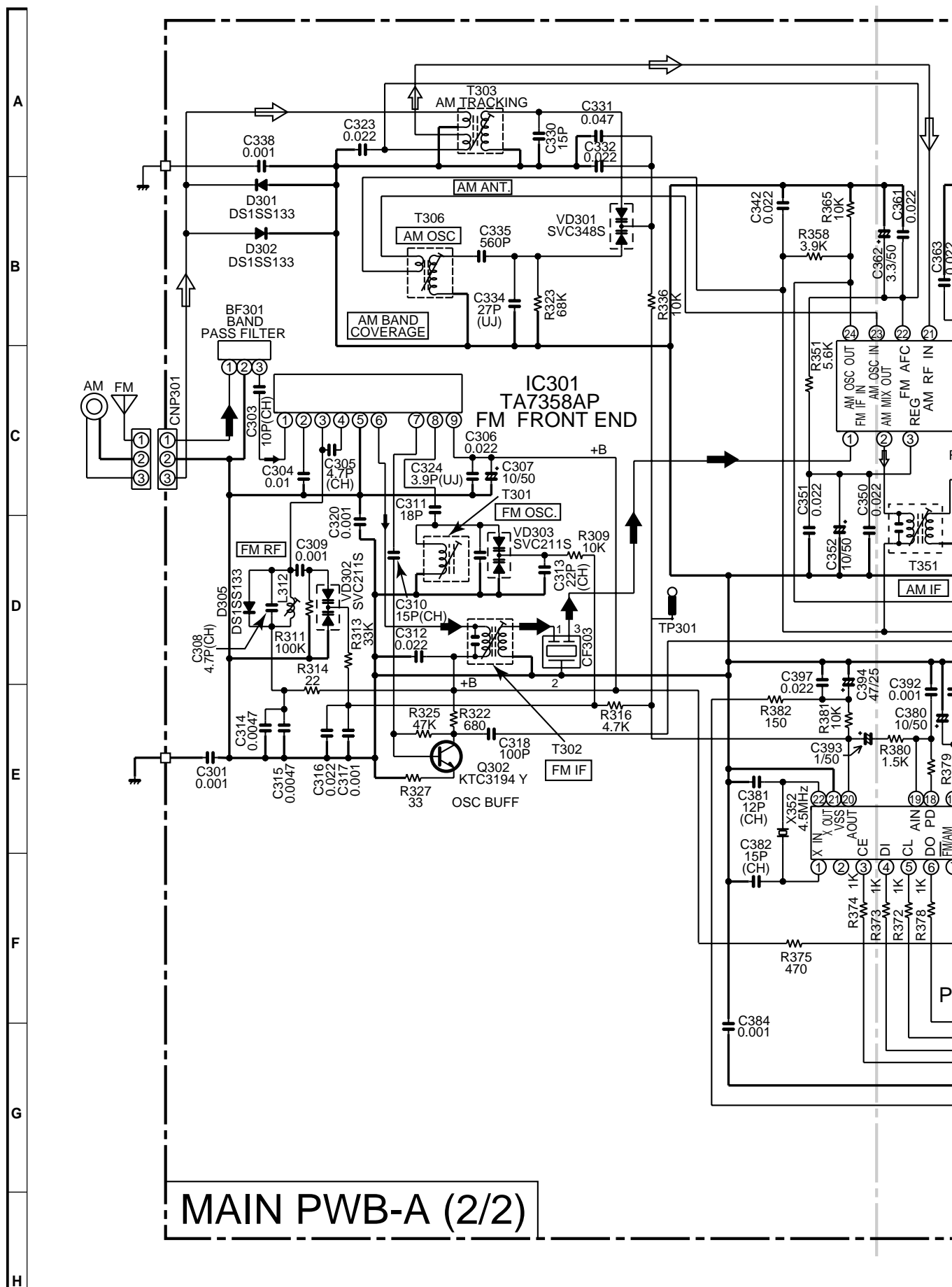


Figure 34 SCHEMATIC DIAGRAM (9/10)

- 35 -

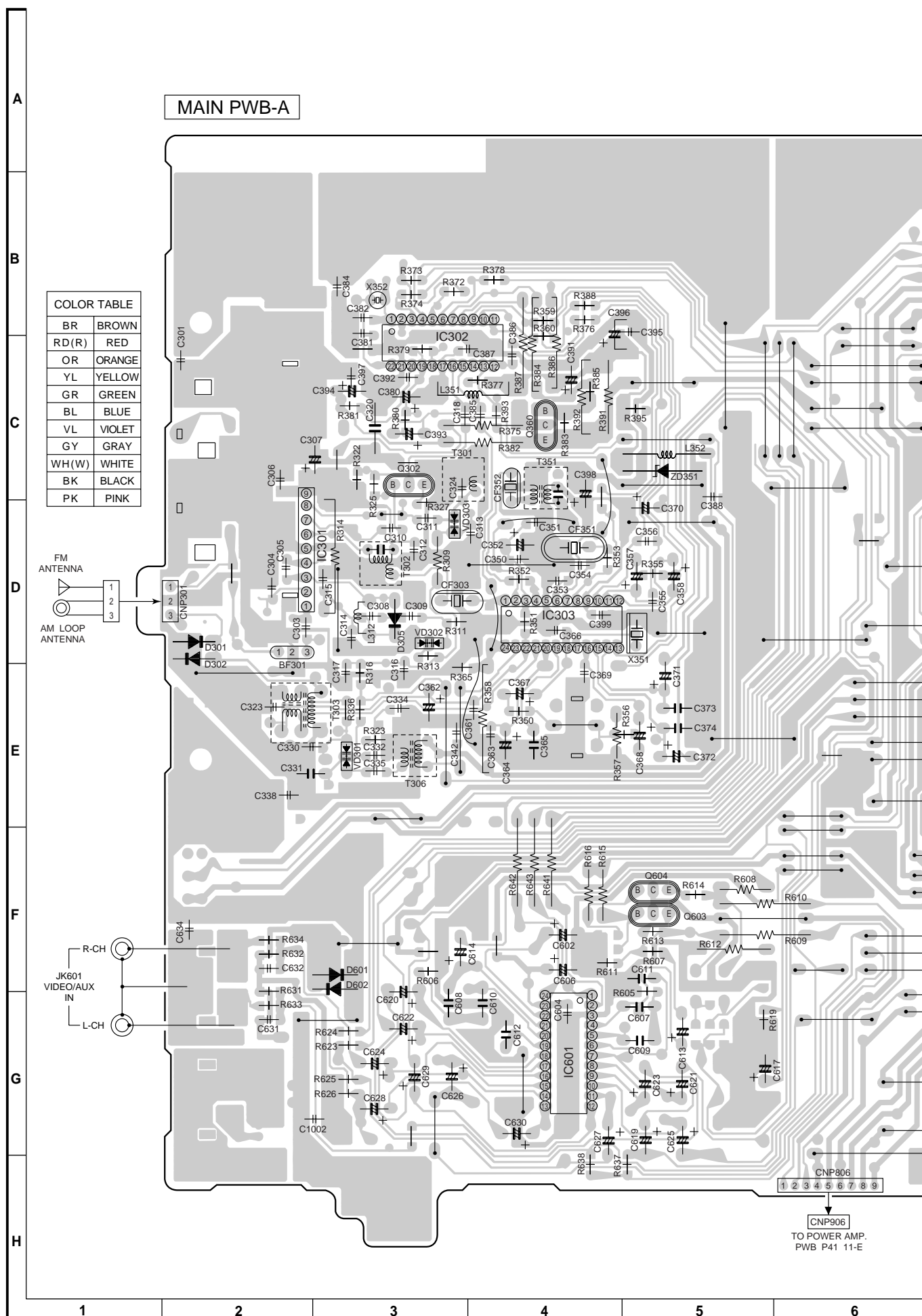


Figure 36 WIRING SIDE OF P.W.BOARD (1/9)

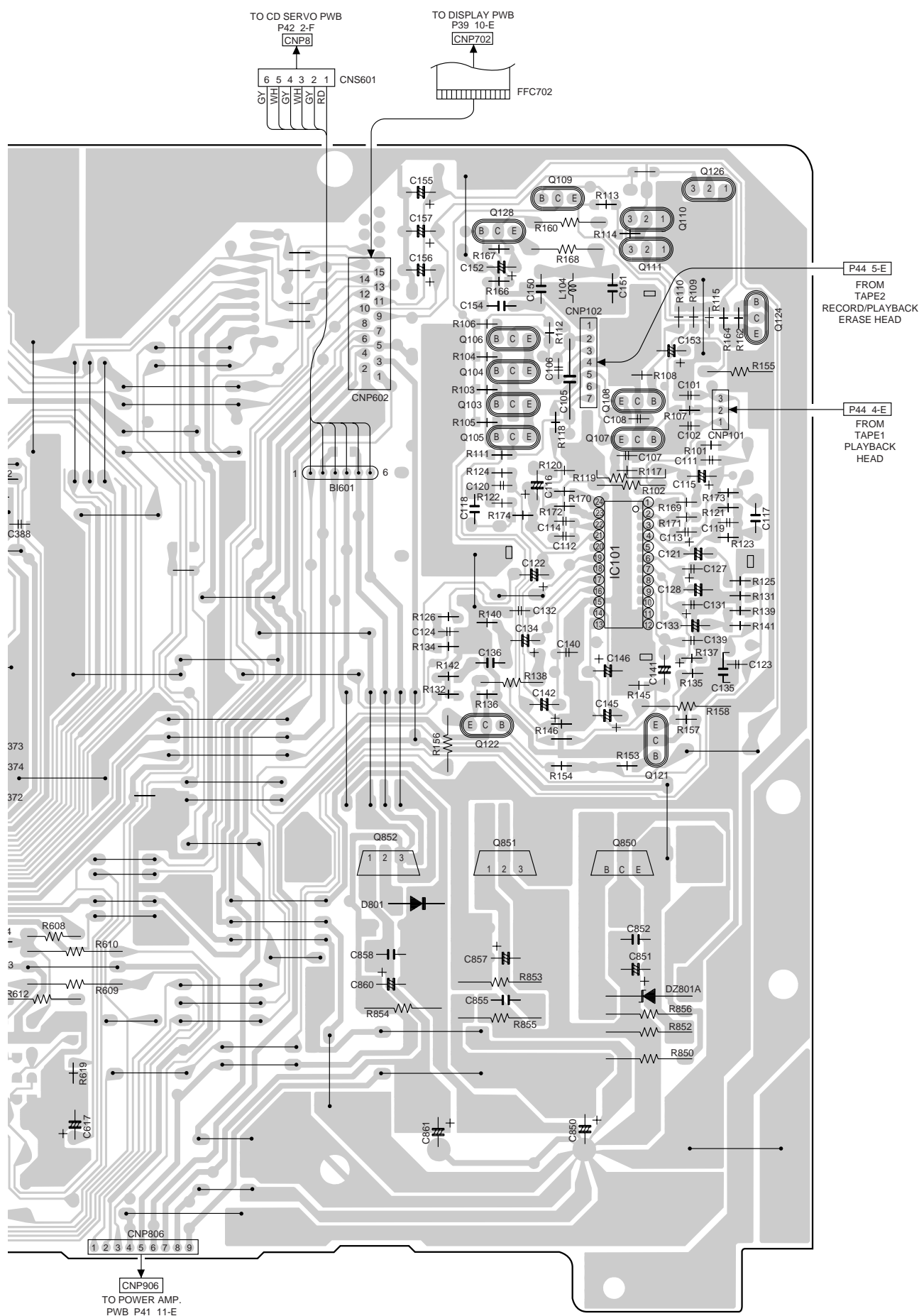
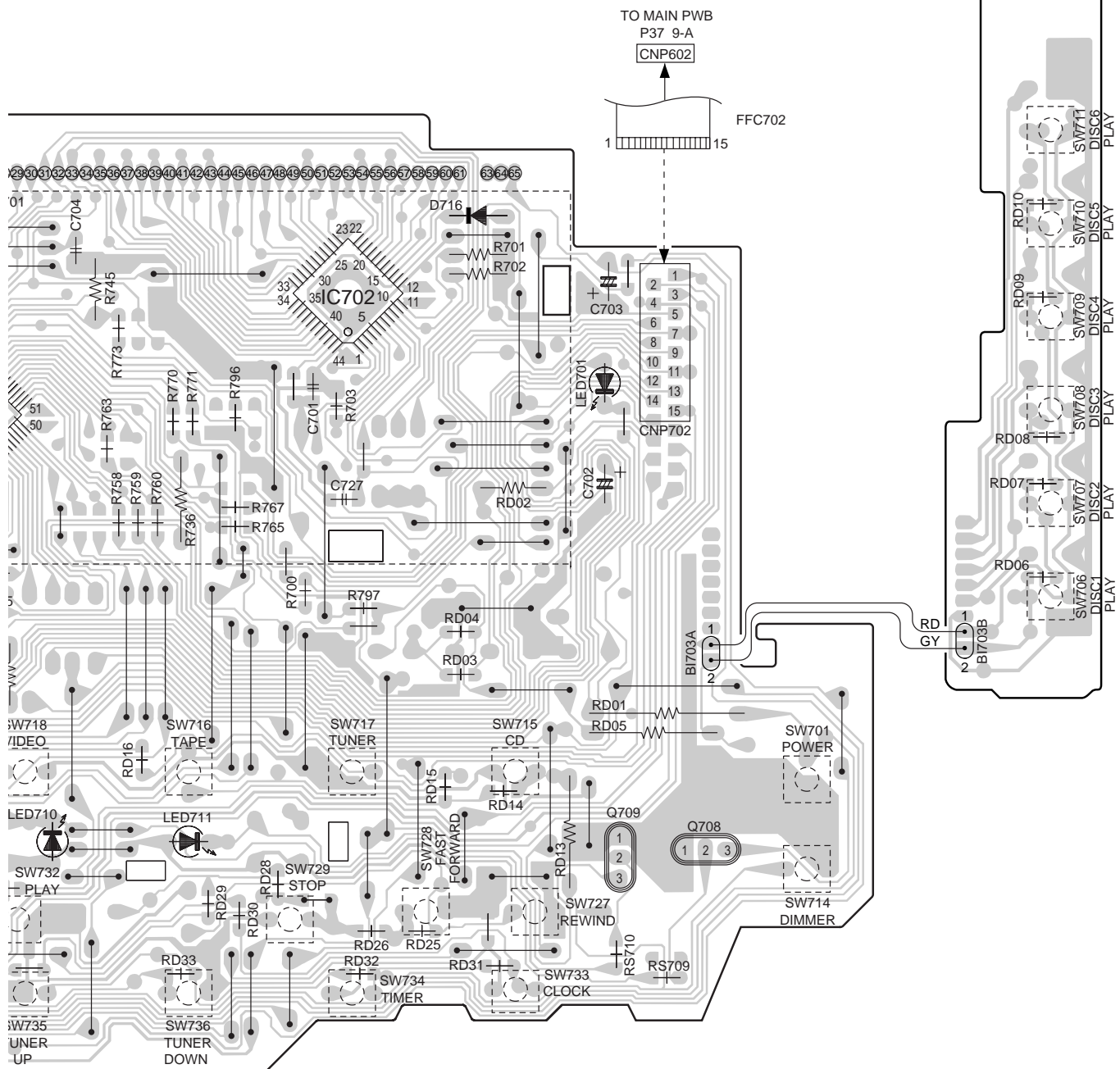


Figure 37 WIRING SIDE OF P.W.BOARD (2/9)

- 38 -

PLAY SWITCH
PWB-B3



7	8	9	10	11	12
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Figure 39 WIRING SIDE OF P.W.BOARD (4/9)

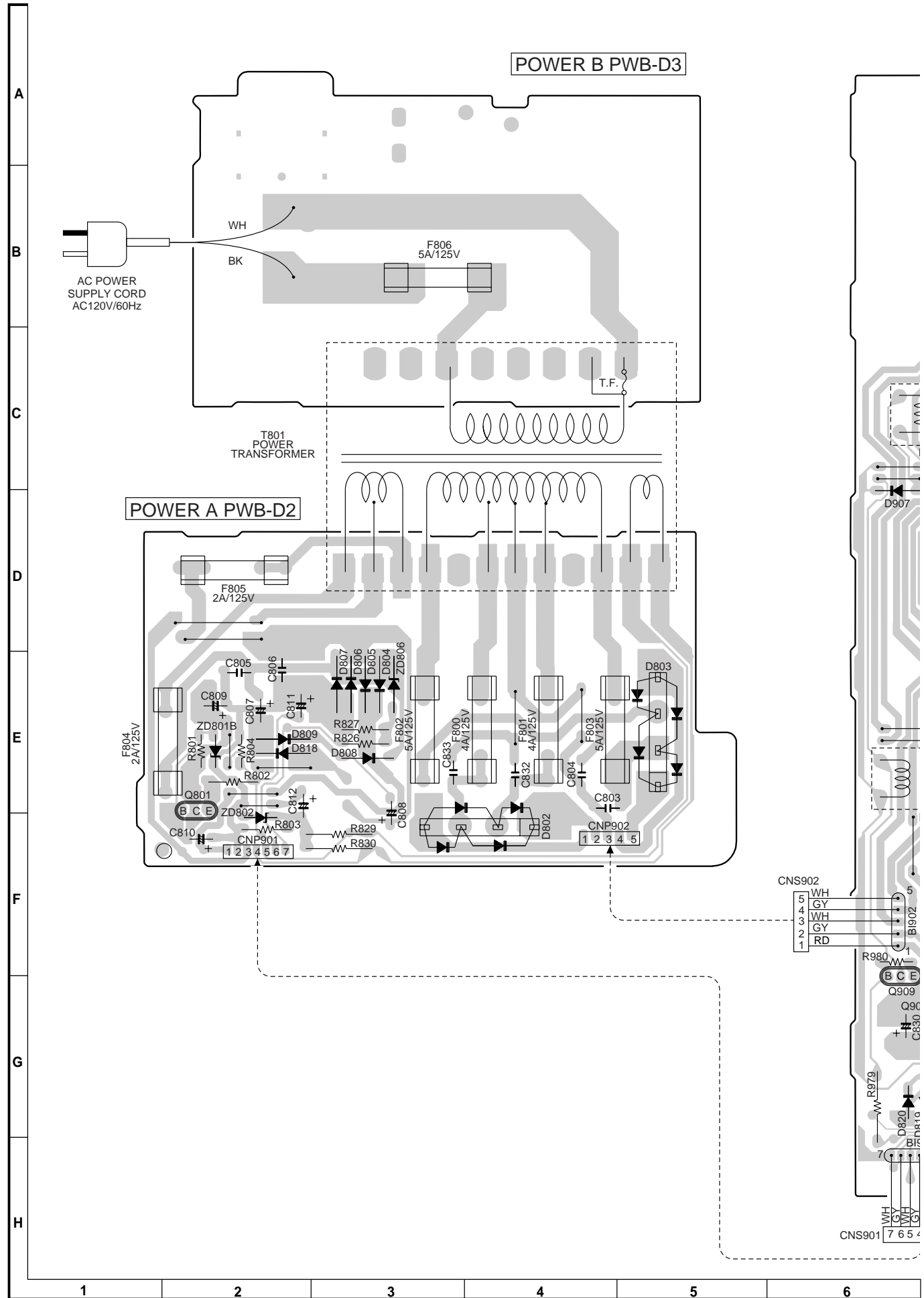


Figure 40 WIRING SIDE OF P.W.BOARD (5/9)

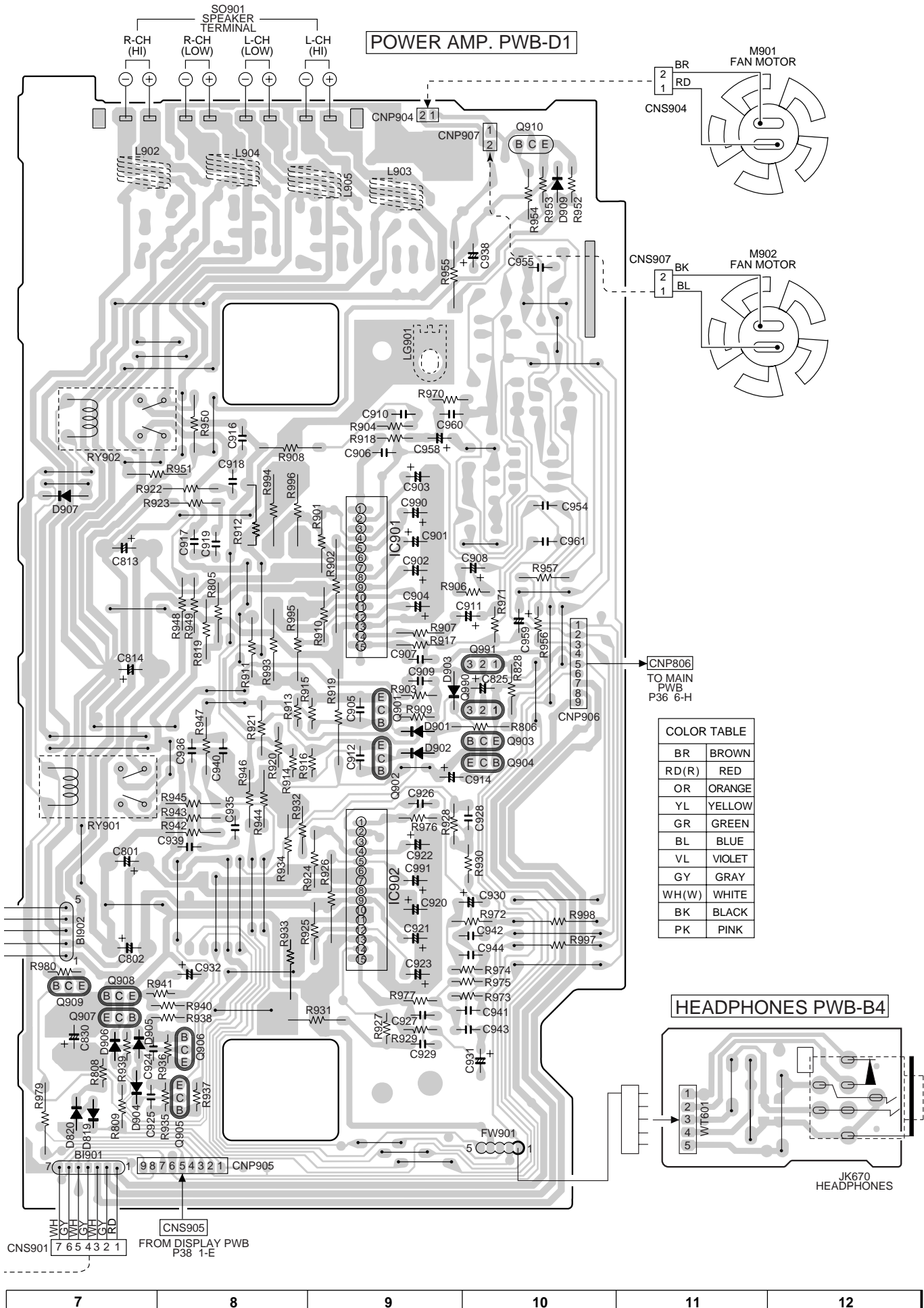


Figure 41 WIRING SIDE OF P.W.BOARD (6/9)

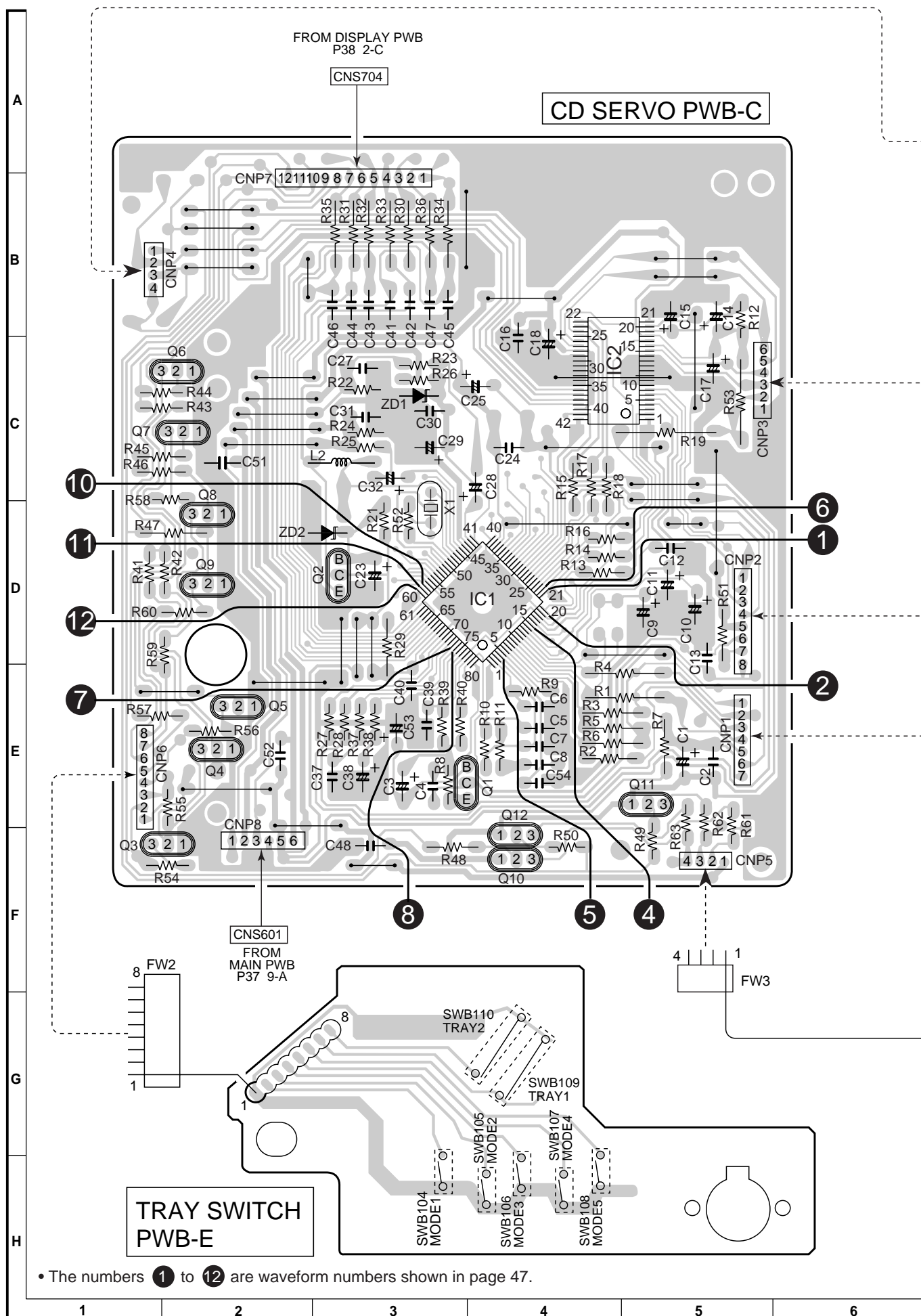


Figure 42 WIRING SIDE OF P.W.BOARD (7/9)

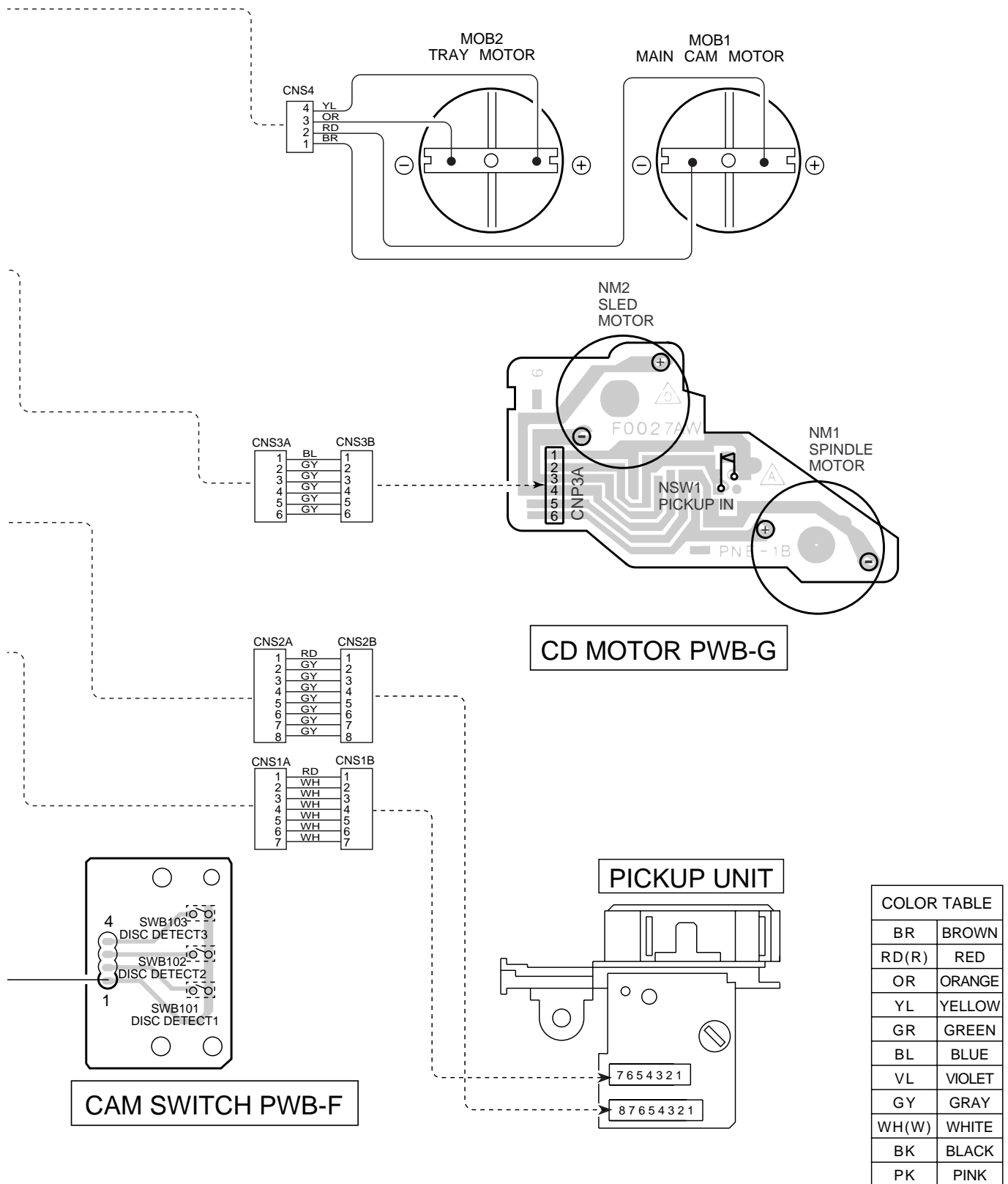


Figure 43 WIRING SIDE OF P.W.BOARD (8/9)

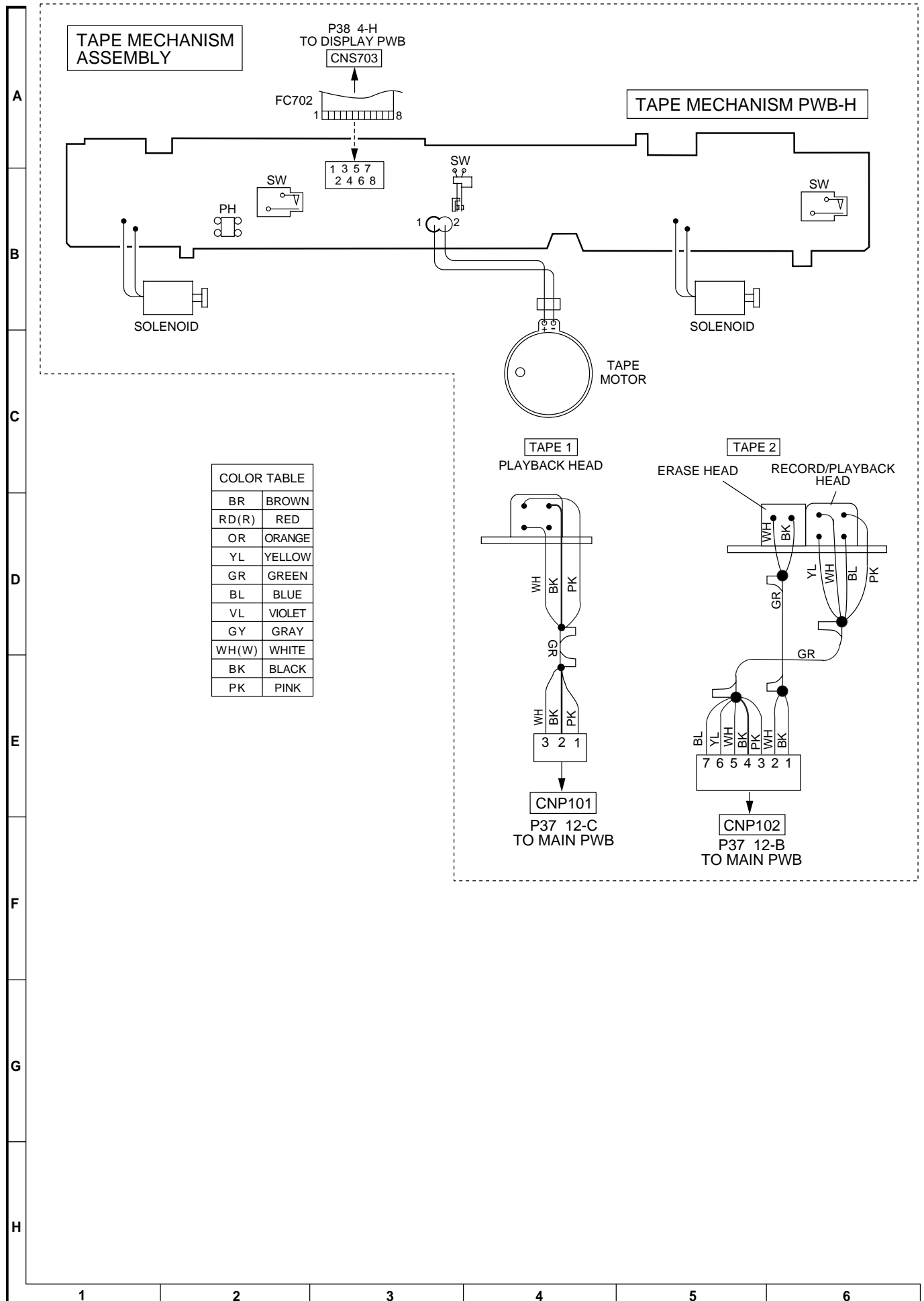


Figure 44 WIRING SIDE OF P.W.BOARD (9/9)

VOLTAGE

IC1			
PIN NO	VOLTAGE	PIN NO	VOLTAGE
1	1.6V	41	3.7V
2	1.0V	42	3.7V
3	1.6V	43	0V
4	1.8V	44	0V
5	3.3V	45	3.7V
6	0V	46	3.2V
7	1.6V	47	3.2V
8	1.6V	48	3.2V
9	1.6V	49	0V
10	1.6V	50	0V
11	1.6V	51	0V
12	1.6V	52	3.2V
13	1.5V	53	0V
14	1.5V	54	0V
15	1.5V	55	0V
16	1.5V	56	0V
17	0.8V	57	0V
18	3.2V	58	3.2V
19	0V	59	0V
20	1.6V	60	0V
21	1.6V	61	0V
22	1.6V	62	4.7V
23	1.6V	63	0V
24	0V	64	4.9V
25	0V	65	4.9V
26	3.2V	66	4.9V
27	0V	67	0V
28	0V	68	4.9V
29	0V	69	0V
30	0V	70	0V
31	0V	71	0V
32	0V	72	0V
33	0V	73	0V
34	0V	74	0V
35	1.6V	75	0V
36	0V	76	3.2V
37	0V	77	3.2V
38	3.2V	78	3.2V
39	3.2V	79	0V
40	0V	80	3.2V

IC601	
PIN NO	VOLTAGE
1	3.0V
2	0V
3	0V
4	5V
5	5V
6	5V
7	5V
8	5V
9	5V
10	5V
11	5V
12	5V
13	5V
14	5V
15	5V
16	5V
17	5V
18	5V
19	5V
20	5V
21	5V
22	5V
23	10V
24	3.4V

IC302	
PIN NO	VOLTAGE
1	2.4V
2	0V
3	0V
4	0V
5	2.9V
6	4.8V
7	0.1V
8	4.2V
9	3.3V
10	0V
11	5.1V
12	2.2V
13	5V
14	0V
15	0V
16	2.3V
17	5V
18	0.6V
19	0.8V
20	2V
21	0V
22	2.5V

IC2	
PIN NO	VOLTAGE
1	1.7V
2	1.7V
3	1.8V
4	2.1V
5	2.1V
6	2.1V
7	2.0V
8	0V
9	0V
10	0V
11	0V
12	0V
13	0V
14	0V
15	2.1V
16	2.1V
17	1.6V
18	4.9V
19	3.0V
20	1.6V
21	0V
22	0V
23	4.9V
24	4.9V
25	1.6V
26	2.1V
27	2.1V
28	0V
29	0V
30	0V
31	0V
32	0V
33	0V
34	0V
35	0V
36	4.2V
37	0V
38	2.1V
39	2.1V
40	4.9V
41	3.7V
42	3.7V

IC901	
PIN NO	VOLTAGE
1	0V
2	0V
3	0V
4	36.8V
5	-35.5V
6	0V
7	0V
8	37.6V
9	-37.7V
10	0V
11	0V
12	-37.1V
13	0V
14	0V
15	0V

IC701			
PIN NO	VOLTAGE	PIN NO	VOLTAGE
1	4.8V	51	4.6V
2	0V	52	4.3V
3	4.9V	53	0V
4	4.9V	54	0V
5	4.9V	55	0V
6	4.9V	56	4.3V
7	4.9V	57	4.8V
8	4.9V	58	0V
9	4.9V	59	0V
10	4.9V	60	4.3V
11	0V	61	4.3V
12	4.9V	62	0V
13	0.5V	63	0V
14	0V	64	4.9V
15	0V	65	0V
16	2.4V	66	2.5V
17	2.9V	67	0V
18	4.8V	68	4.8V
19	0V	69	4.8V
20	5.4V	70	-15.7V
21	0.7V	71	-16.0V
22	0V	72	-20.2V
23	4.8V	73	-16.4V
24	0V	74	-16.1V
25	0.7V	75	-16.4V
26	5.4V	76	-16.3V
27	2.3V	77	-21.3V
28	0V	78	-21.0V
29	3.4V	79	4.8V
30	3.0V	80	-28.4V
31	5.0V	81	-21.8V
32	4.4V	82	-20.6V
33	12.3V	83	-15.6V
34	12.3V	84	-20.5V
35	12.3V	85	-23.1V
36	0V	86	-22.6V
37	4.9V	87	-22.9V
38	0V	88	-22.8V
39	4.9V	89	-18.8V
40	0V	90	-23.4V
41	4.9V	91	-23.5V
42	4.9V	92	-14.4V
43	4.9V	93	-19.9V
44	0V	94	-19.6V
45	0.6V	95	-20.7V
46	0V	96	-18.9V
47	0.6V	97	-18.9V
48	0V	98	-19.0V
49	0V	99	-21.2V
50	0V	100	-20.8V

IC301	
PIN NO	VOLTAGE
1	0.8V
2	1.5V
3	3.6V
4	1.5V
5	0V
6	3.6V
7	2.8V
8	3.5V
9	3.6V

Q850	
PIN NO	VOLTAGE
1	12.2V
2	21V
3	12.9V

Q851	
PIN NO	VOLTAGE
1	21V
2	0V
3	10V

IC702			
PIN NO	VOLTAGE	PIN NO	VOLTAGE
1	0V	23	-27.9V
2	0V	24	-14.9V
3	0V	25	-14.9V
4	0V	26	-27.9V
5	1.9V	27	-24.6V
6	0V	28	-27.9V
7	3.0V	29	-11.8V
8	3.5V	30	-28.4V
9	2.5V	31	-28.1V
10	0V	32	-28.1V
11	0V	33	-28.1V
12	0V	34	-28.1V
13	4.9V	35	-25.4V
14	-27.9V	36	-25.4V
15	-14.9V	37	-25.4V
16	-24.6V	38	-25.4V
17	-24.6V	39	-25.4V
18	-26.9V	40	-25.4V
19	-14.9V	41	-25.4V
20	-18.1V	42	-25.4V
21	-18.1V	43	4.9V
22	-18.2V	44	0V

IC703	
PIN NO	VOLTAGE
1	2.5V
2	1.5V
3	2.5V
4	NC
5	NC
6	NC
7	2.5V
8	2.5V
9	4.9V
10	0.4V
11	0.9V
12	0.4V
13	4.9V
14	NC
15	NC
16	0V
17	0V
18	0V

IC705	
PIN NO	VOLTAGE
1	9V
2	9V
3	3.5V
4	3.5V
5	9V
6	0.5V
7	0.5V
8	1V
9	5V
10	0V
11	9V
12	4V
13	4V
14	9V
15	4V
16	2.5V
17	9V
18	9V

IC903	
PIN NO	VOLTAGE
1	0V
2	0V
3	0V
4	-13.0V
5	13.2V
6	0V
7	0V
8	0V

IC902	
PIN NO	VOLTAGE
1	0V
2	0V
3	0V
4	31.1V
5	-29.7V
6	0V
7	0V
8	32.1V
9	-32.3V
10	0V
11	0V
12	-31.2V
13	0V
14	0V
15	0V

Q852	
PIN NO	VOLTAGE
1	10V
2	0.7V
3	5.6V

IC101	
PIN NO	VOLTAGE
1	0V
2	0V
3	0.5V
4	1.9V
5	0V
6	0V
7	0V
8	0.6V
9	3.3V
10	3.3V
11	0V
12	0V
13	6.7V
14	4.0V
15	0V
16	3.3V
17	0.6V
18	0V
19	0V
20	0V
21	1.9V
22	0.5V
23	0V
24	0V

IC303	
PIN NO	VOLTAGE
1	2.1V
2	4.5V
3	2.1V
4	2.1V
5	0V
6	4.6V
7	4.6V
8	2.4V
9	4.5V
10	3.9V
11	3.3V
12	3.3V
13	3.5V
14	1.2V
15	1.2V
16	2.0V
17	2.7V
18	2.1V
19	0V
20	0.3V
21	2.6V
22	2.6V
23	4.5V
24	3.0V

NOTES ON SCHEMATIC DIAGRAM

- Resistor:

To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with "Fusible" is a fuse type.

- Capacitor:

To indicate the unit of capacitor, a symbol P is used: this symbol P means pico-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression "capacitance/withstand voltage" is used.

(CH), (TH), (RH), (UJ): Temperature compensation

(ML): Mylar type

(P.P.): Polypropylene type

- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.

- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.

1. In the tuner section,

() indicates AM

< > indicates FM stereo

2. In the main section, a tape is being played back.

3. In the deck section, a tape is being played back.

() indicates the record state.

4. In the power section, a tape is being played back.

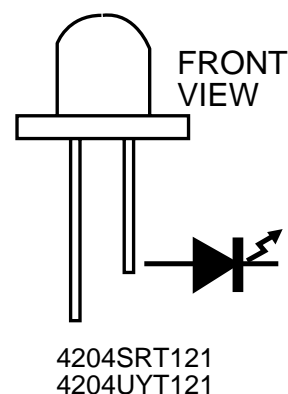
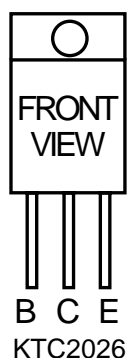
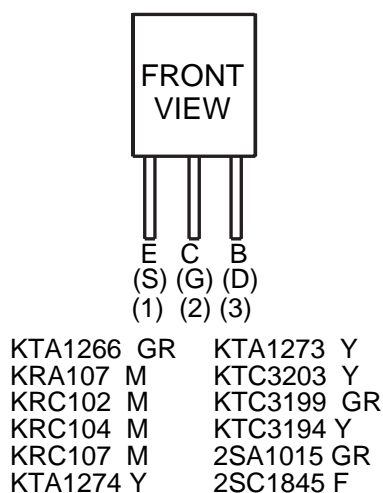
5. In the CD section, the CD is stopped.

- Parts marked with "△" (□ = = = □) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

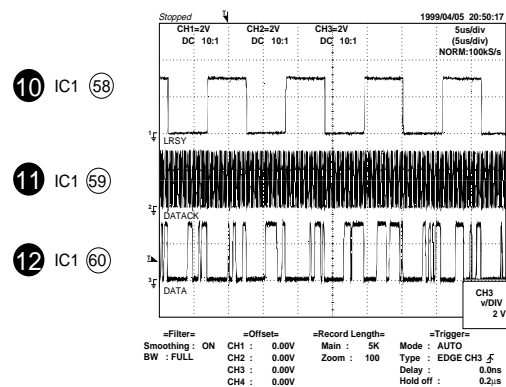
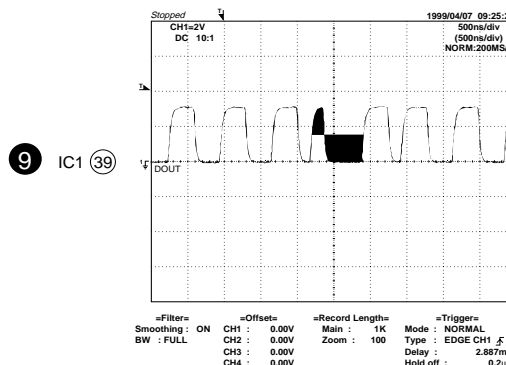
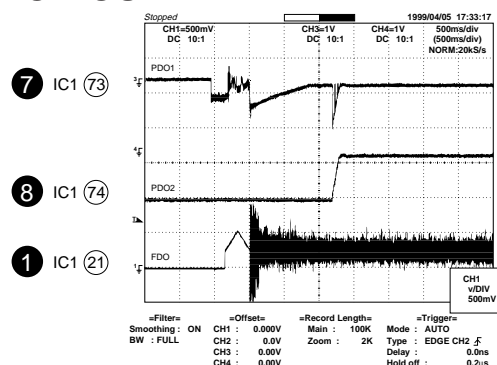
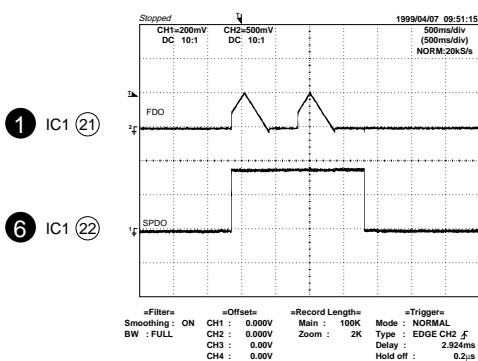
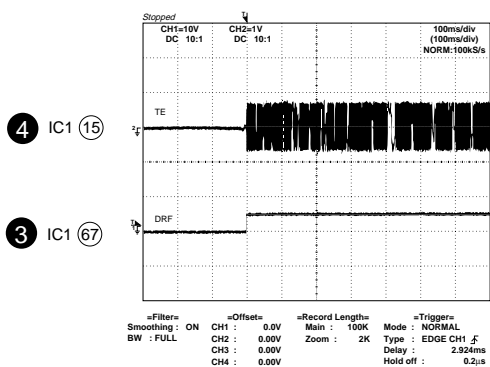
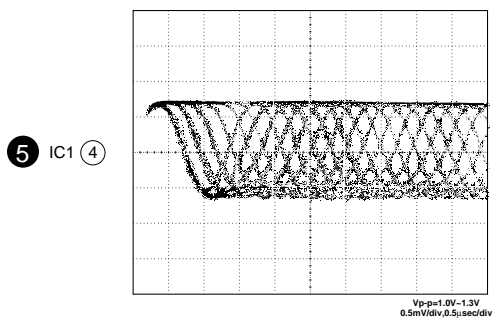
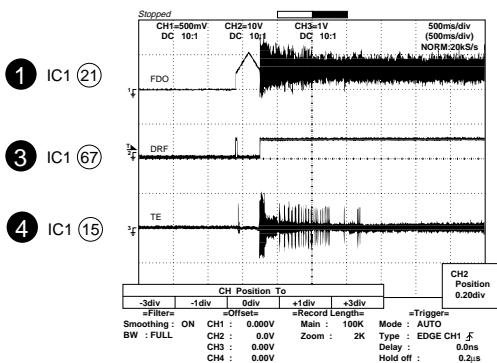
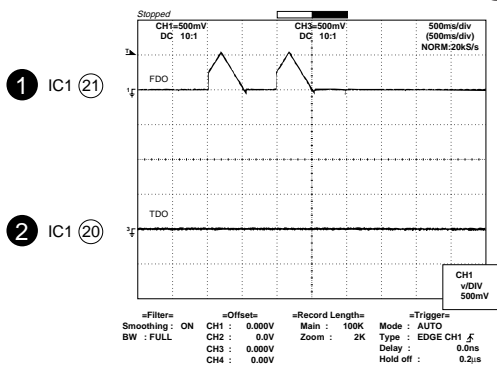
REF. NO	DESCRIPTION	POSITION
NSW1	PICKUP IN	ON—OFF
SW701	POWER	ON—OFF
SW706	DISC 1 PLAY	ON—OFF
SW707	DISC 2 PLAY	ON—OFF
SW708	DISC 3 PLAY	ON—OFF
SW709	DISC 4 PLAY	ON—OFF
SW710	DISC 5 PLAY	ON—OFF
SW711	DISC 6 PLAY	ON—OFF
SW712	DISC 5 EJECT	ON—OFF
SW713	DISC 6 EJECT	ON—OFF
SW714	DIMMER	ON—OFF
SW715	CD	ON—OFF
SW716	TAPE	ON—OFF
SW717	TUNER	ON—OFF
SW718	VIDEO	ON—OFF
SW719	MEMORY	ON—OFF
SW720	EQUALIZER	ON—OFF
SW721	DISC 1 EJECT	ON—OFF
SW722	DISC 2 EJECT	ON—OFF
SW723	DISC 3 EJECT	ON—OFF
SW724	DISC 4 EJECT	ON—OFF

REF. NO	DESCRIPTION	POSITION
SW727	REWIND	ON—OFF
SW728	FAST FORWARD	ON—OFF
SW729	STOP	ON—OFF
SW732	PLAY	ON—OFF
SW733	CLOCK	ON—OFF
SW734	TIMER	ON—OFF
SW735	TUNER UP	ON—OFF
SW736	TUNER DOWN	ON—OFF
SW737	REC/PAUSE	ON—OFF
SW738	X-BASS	ON—OFF
SWB101	DISC DETECT 1	ON—OFF
SWB102	DISC DETECT 2	ON—OFF
SWB103	DISC DETECT 3	ON—OFF
SWB104	MODE 1	ON—OFF
SWB105	MODE 2	ON—OFF
SWB106	MODE 3	ON—OFF
SWB107	MODE 4	ON—OFF
SWB108	MODE 5	ON—OFF
SWB109	TRAY 1	ON—OFF
SWB110	TRAY 2	ON—OFF

TYPES OF TRANSISTOR AND LED



WAVEFORMS OF CD CIRCUIT



TROUBLE SHOOTING

When the CD does not function

When the CD section does not operate when the objective lens of the optical pickup is dirty, this section may not operate. Clean the objective lens, and check the playback operation. When this section does not operate even after the above step is taken, check the following items.

Remove the cabinet and follow the trouble shooting instructions.

"Track skipping and/or no TOC (Table Of Contents) may be caused by build up of dust other foreign matter on the laser pickup lens. Before attempting any adjustment make certain that the lens is clean. If not, clean it as mentioned below."

Turn off the power, and wipe the lens softly using a cleaning paper moistened with commercially available cleaning solution so as not to damage it. Be careful not to touch the lens with bare hands.

		Parts code
1.	CD optical pickup Lens cleaner disc	UDSKA0004AFZZ

HOW TO USE

- Using the brush in the cleaner cap, apply 1 or 2 drops of the cleaning fluid to the brush on the CD cleaner disc which has the mark next to it.
- Place the CD cleaner disc onto the CD disc tray with the brush side down, then press the play button.
- You will hear music for about 20 seconds and the CD player will automatically stop. If it continuous to turn, press the stop button.

CAUTION

- The CD lens cleaner should be effective for 30-50 operations, however if the brushes become worn out earlier then please the cleaner disc.
- If the CD cleaner brushes become very wet then wipe off any excess fluid with a soft cloth.
- Do not drink the cleaner fluid or allow it to come in contact with the eyes. In the event of this happening then drink and / or rinse with clean water and seek medical advice.
- The CD cleaner disk must not be used on car CD players or on computer CD-ROM drives.
- All rights reserved.Unauthorized duplicating, broadcasting and renting this product is prohibited by law.

When a CD cannot be played

1. "E-CD01" is displayed.

- Check the power to IC1 (LC78645E), the presence of the clock signal (33.8688 MHz) and the status of the RESET terminal (pin 48 on IC1).
- Does the pickup move to the PICKUP-IN Switch (NSW1) position?

If (1) and (2) are OK, check the system microcomputer (especially the communication line with the DSP).

2. Pressing the CD operation key is accepted, but playback does not occur.

- Focus-HF system check
- Tracking system check
- Spin system check
- PLL system check
- Others

(1) Focus-HF system check

Although a CD is inserted and the cover is closed, "NO DISC" is displayed.

Press the Disc 1~6 Eject switch (SW712, SW713, SW721~SW724) without inserting a disc, and try starting the playback operation.

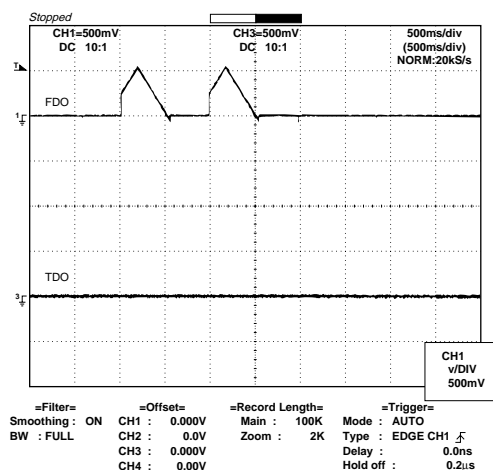


Figure 49-1

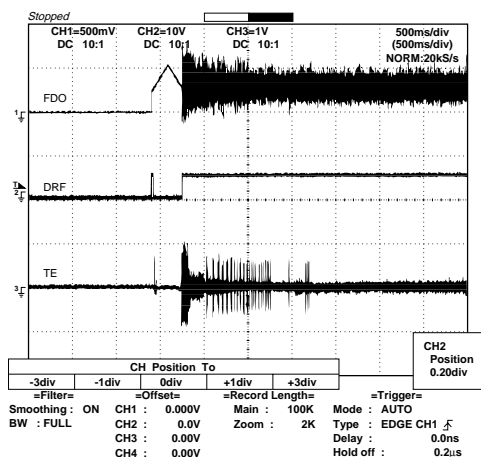
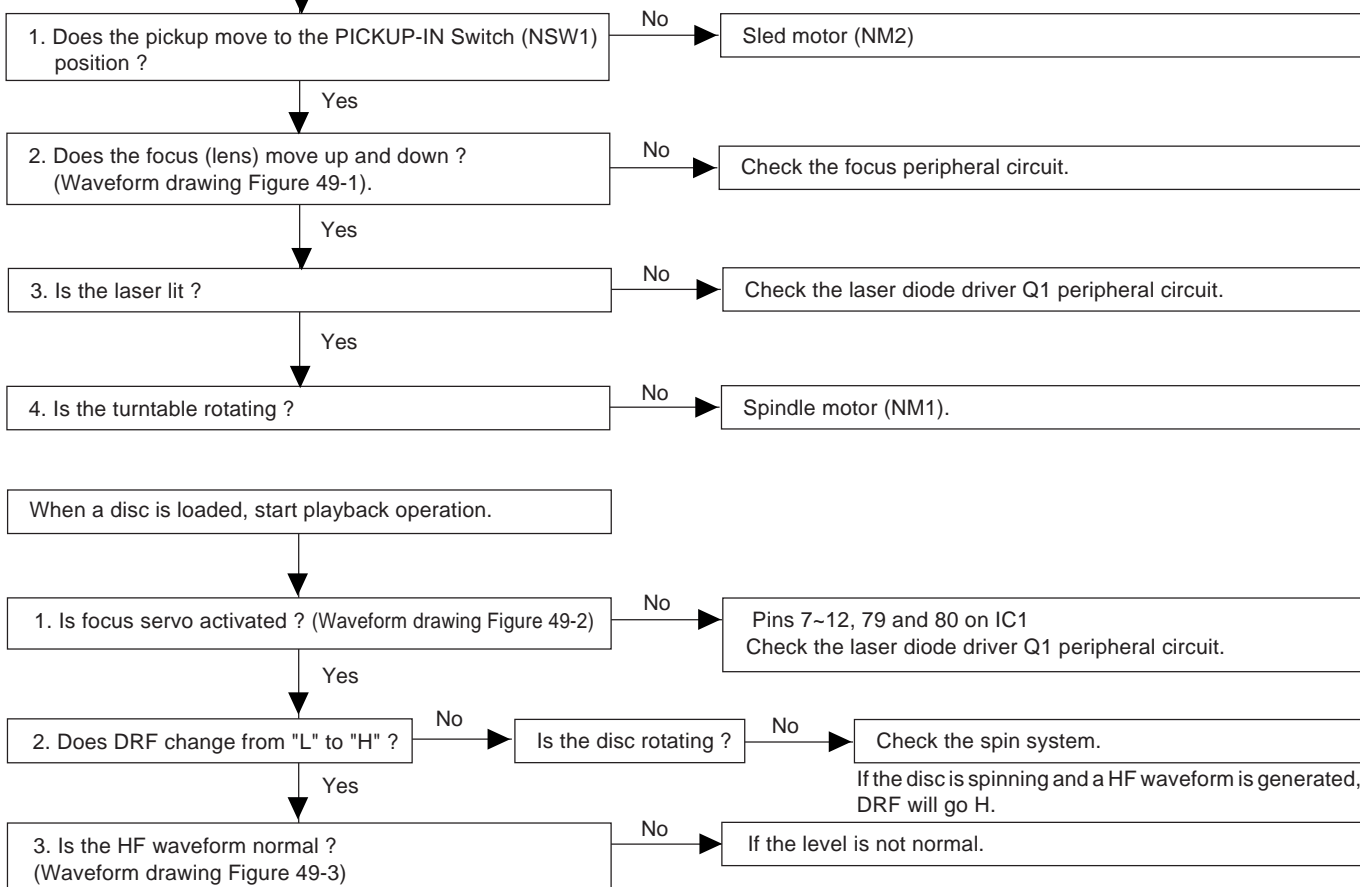


Figure 49-2

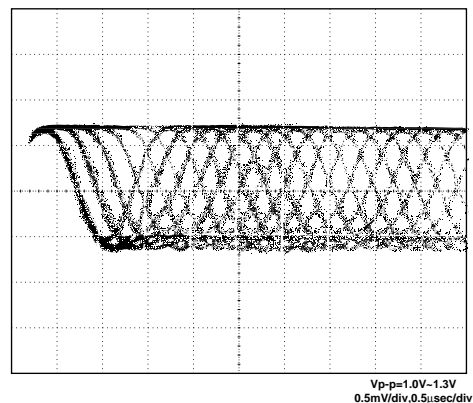


Figure 49-3

CD-BA3100

(2) Tracking system check

Check the TE waveform at pin 15 on IC1.

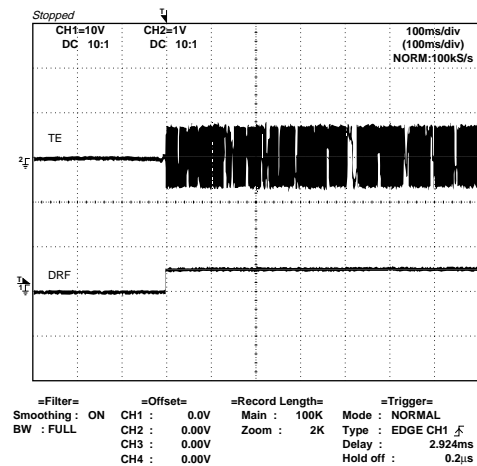
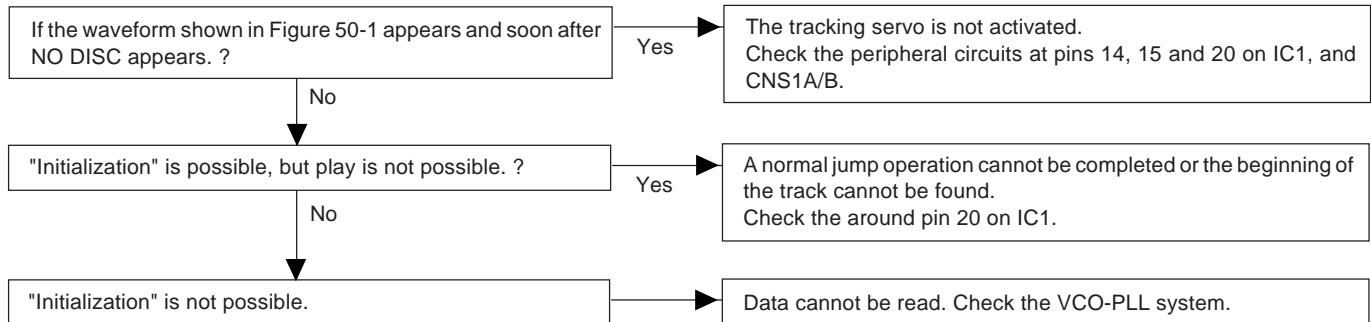


Figure 50-1

(3) Spin system check

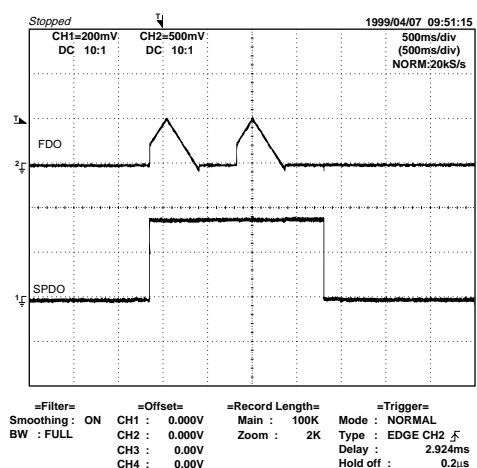
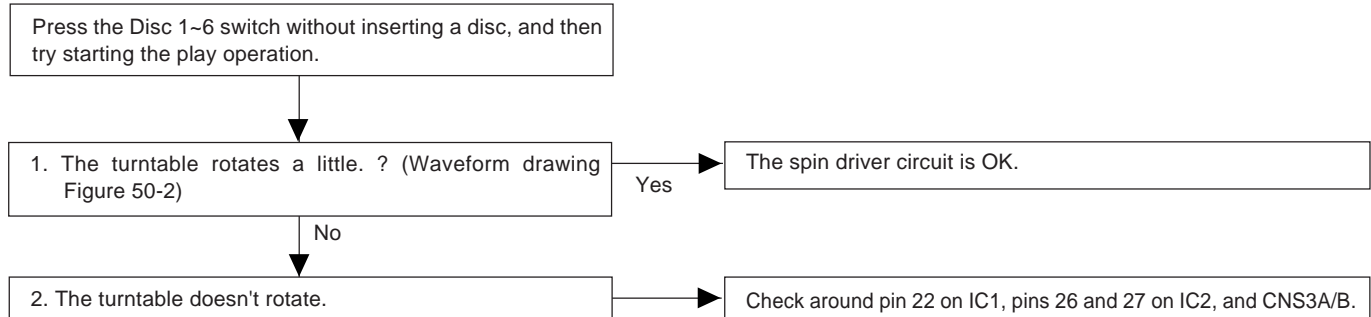


Figure 50-2

(4) PLL system check

When a disc is loaded, start play operation.

The HF waveform is normal, but the TOC data cannot be read.

Check the PDO waveform. (Figure 51-1)

Check around pins 73~78 on IC1.

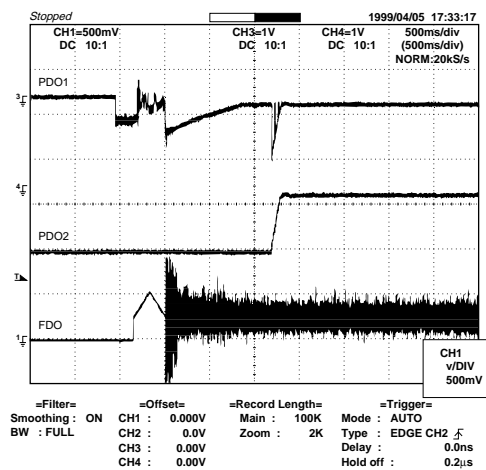


Figure 51-1

(5) Others

The HF waveform is normal and the time is displayed normally, but no sound is produced. Or the sound has dropouts.

Is pin 52 (C2F) on IC1 "L" ?

Yes

1. When playing at normal speed
Check the peripheral circuit at pin 39 (DOUT) on IC1 and the waveform (Figure 51-2).

If OK, Check the unit.

No

There are too many error flags on a damaged disc which makes error correction impossible.

Check again using a known good disc.

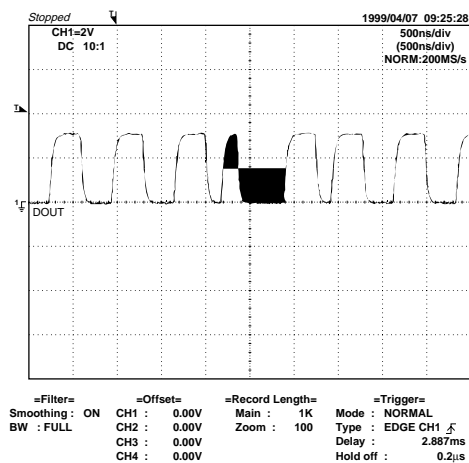


Figure 51-2

FUNCTION TABLE OF IC

IC1 VHiLC78645E-1: CD Servo (LC78645E) (1/2)

Pin No.	Terminal Name	Input/Output	Setting in Reset	Function	
1	SLC0	Output	—	For slice level control.	Control output.
2	SLCIST	Input	—		Resistor connection terminal for SLC0 output current setting.
3	EFMIN	Input	—		RF signal input terminal.
4	RF	Output	—	RF signal monitor terminal.	
5	RFVDD	Input	—	RF power terminal.	
6	RFVSS	—	—	RF earth terminal. To be connected to 0V.	
7	FIN1	Input	—	A+C signal input terminal.	
8	FIN2	Input	—	B+D signal input terminal.	
9	TIN1	Input	—	E signal input terminal.	
10	TIN2	Input	—	F signal input terminal.	
11	VREF	Output	RFVDD/2	VREF voltage output terminal.	
12	REFI	Input	—	Reference supply setting terminal.	
13*	FE	Output	ZHI	FE signal monitor terminal.	
14	TEC	Output	—	LPF capacitor connection terminal for TE signal.	
15*	TE	Output	ZHI	TE signal monitor terminal.	
16*	RFMON	Output	ZHI	RF internal signal monitor terminal.	
17	JITTC	—	—	Capacitor connection terminal for jitter detection.	
18	ADAVDD	Input	—	Power terminal for servo A/D, D/A.	
19	ADAVSS	—	—	Earth terminal for servo A/D, D/A. To be connected to 0V.	
20	TD0	Output	ADAVDD/2	Output terminal for tracking control. D/A output.	
21	FD0	Output	ADAVDD/2	Output terminal for focus control. D/A output.	
22	SPD0	Output	ADAVDD/2	Output terminal for spindle control. D/A output.	
23	SLD0	Output	ADAVDD/2	Output terminal for sled control. D/A output.	
24*	GPDAC	Output	ADAVDD/2	Servo D/A general-purpose output terminal.	
25	CONT4	Input/Output	Input Mode	General-purpose I/O terminal 4.	Controlled by commands from the microcomputer. When not used, set them as input terminals and connect to 0V, or set them as output terminals and leave open.
26	CONT5	Input/Output	Input Mode	General-purpose I/O terminal 5.	
27	SBCK/CONT6	Input/Output	Input Mode	General-purpose I/O terminal 6 or Subcode reading clock input terminal.	
28	SBCK/FG	Input	—	Subcode reading clock input terminal/FG signal input terminal/external emphasis setting terminal. Terminal functions are set by commands. When not used, connect to 0V.	
29*	DEFECT	Output	L	Defect terminal.	
30*	V/*P	Output	H	Auto switching monitor output terminal for rough servo phase control. “H”: rough servo, “L”: phase servo.	
31*	FSEQ	Output	L	Sync signal detection output terminal. The status changes to “H” when the sync signal detected in EFM and the sync signal of internal generation are identified.	
32*	MONI1	Output	L	Internal signal monitor terminal 1.	
33*	MONI2	Output	L	Internal signal monitor terminal 2.	
34*	MONI3	Output	L	Internal signal monitor terminal 3.	
35*	MONI4	Output	L	Internal signal monitor terminal 4.	
36*	MONI5	Output	L	Internal signal monitor terminal 5.	
37	VSS	—	—	Digital system earth terminal. To be connected to 0V.	
38	VDD	Input	—	Digital system power terminal.	
39*	DOUT	Output	L	Digital OUT output terminal. (EIAJ format)	
40	TEST	Input	L	Input terminal for test. To be connected to 0V.	
41	LVDD	Input	—	Left channel D/A converter	Power supply for Left channel.
42	LCH0	Output	LVDD/2		Left channel output.
43	LVSS	—	—		GND for Left channel. Must be connected to 0V.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC1 VHI LC78645E-1: CD Servo (LC78645E) (2/2)

Pin No.	Terminal Name	Input/Output	Setting in Reset	Function	
44	RVSS	—	—	Right channel D/A converter	GND for Right channel. Must be connected to 0V.
45	RCHO	Output	LVDD /2		Right channel output.
46	RVDD	Input	—		Power supply for Right channel.
47	XVDD	—	—	Crystal Oscillator	Power supply for crystal oscillator.
48	XOUT	Output	—		Connected for the 33.8688MHz crystal oscillator cement.
49	XIN	Input	—		
50	FSX/16MIN	Input/Output	Input	7.35kHz Synchronization signal monitor port. or Clock input port for Digital filter & D/A	
51	XVSS	—	—	Crystal Oscillator	GND for crystal oscillator. Must be connected to 0V.
52*	C2F	Output	H	C2 FLAG monitor port.	
53*	EFLG	Output	L	C1, C2 error corrected monitor port.	
54*	16MOUT	Output	Clock	16.9344MHz output port.	
55	ASLRCK	Input	—	Anti-shock	Word clock input port. (If this port does not use, must be connect to 0V.)
56	ASDACK	Input	—		Bit clock input port. (If this port does not use, must be connect to 0V.)
57	ASDFIN	Input	—		Left/Right channel data input port. (If this port does not use, must be connect to 0V.)
58*	LRSY	Output	L	Digital data	Word clock output port.
59*	DATAACK	Output	L		Bit clock output port.
60*	DATA	Output	L		Left/Right channel data output port.
61	CE	Input	—	Microcomputer Interface	Chip enable signal input port.
62	CL	Input	—		Data transfer clock input port.
63	DI	Input	—		Data input port.
64	DO	Output	(H)		Data output port. (N-ch. open drain output.)
65	*WRQ	Output	H		Interruption signal output.
66	*RES	Input	—	Chip reset signal input port. This port must be set LOW after first applied power on.	
67	DRF	Output	L	Focus detection output port.	
68	VDD5	Input	—	Power supply for Microprocessor.	
69	VSS	—	—	GND for digital circuit. Must be connected to 0V.	
70	CONT3	Input/Output	Input	General purpose port 1.	Controlled with serial data command from micro-computer. When not used, General purpose input/output terminal 7. set it as the input terminal and open it by connecting to 0V, or set it as the output terminal and open it.
71	CONT2	Input/Output	Input	General purpose port 2.	
72*	CONT1	Input/Output	Input	General purpose port 3.	
73	PDO1	Output	—	PLL	Internal VCO control phase comparator output port 1.
74	PDO2	Output	Input		Internal VCO control phase comparator output port 2.
75	VVSS	—	—		GND for internal VCO.Must be connected to 0V.
76	PCKIST	Input	—		PDO output current adjustment resistor connection port.
77	VVDD	Input	—		Power supply for internal VCO.
78	FR	Input	—		VCO frequency range adjustment port.
79	LDS	Input	—	LASER power detected signal input port.	
80	LDD	Output	—	LASER power control signal output port.	

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

Be sure to supply the same potential to each power terminal. (VVDD, ADAVDD, VDD, LVDD, RVDD, XVDD)

Terminal witch is controlled by the power terminal (VDD5V) for a microcomputer interface :

CE (61pin), CL (62pin), DI (63pin), DO (64pin), WRQ (65pin), RES 66pin), DRF (67pin)

IC1 VHiLC78645E-1: CD Servo (LC78645E)

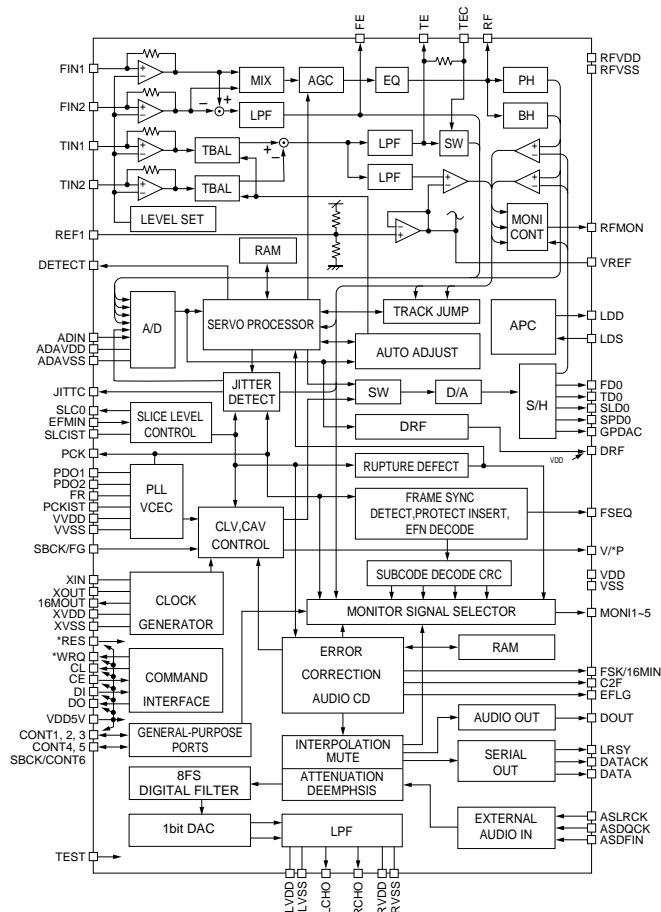
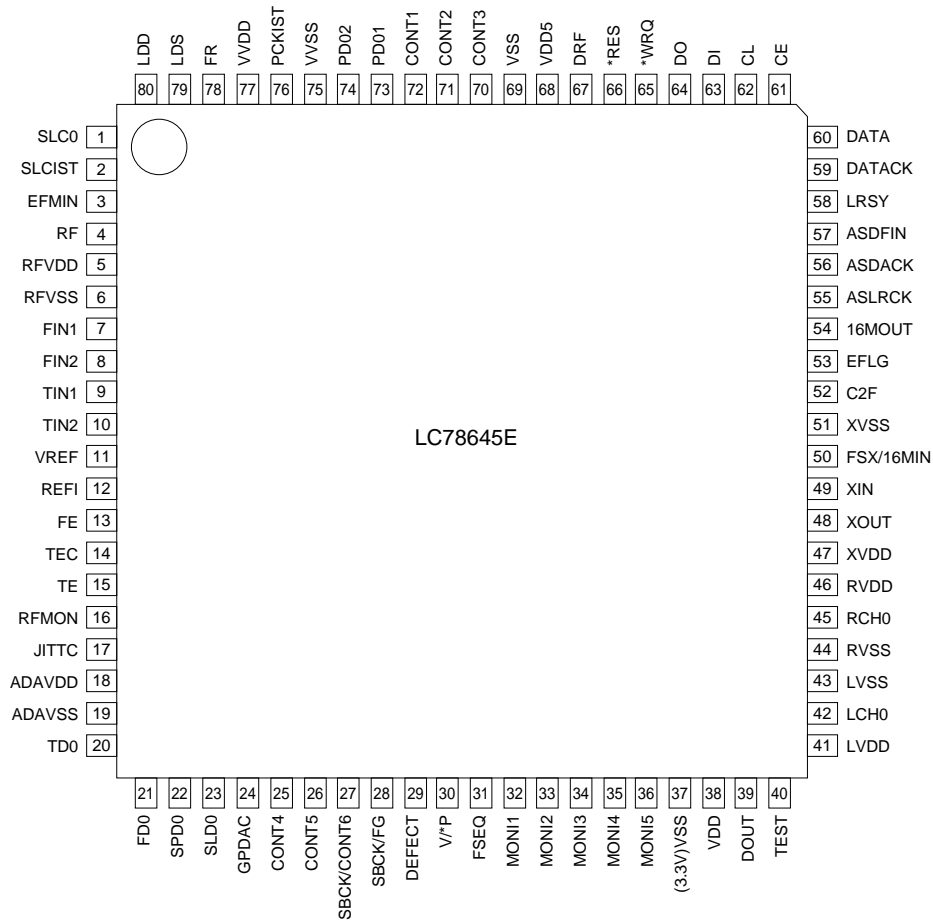


Figure 54 BLOCK DIAGRAM OF IC

IC701 RH-iX0400AWZZ: System Microcomputer (IX0400AW) (1/2)

Pin No.	Port Name	Terminal Name	Input/Output	Function
1	AVDD	AVDD	Input	ANALOG VDD
2	ANI0	SPEANA AOUT	Input	SPEANA INPUT
3	ANI1	CAM A SW A	Input	CD CAM A SW A CONTROL
		CAM A SW B	Input	CD CAM A SW B CONTROL
4	ANI2	CAM A SW C	Input	CD CAM A SW C CONTROL
		CAM A SW D	Input	CD CAM A SW D CONTROL
5	ANI3	CAM A SW E	Input	CD CAM A SW E CONTROL
		CAM B SW A	Input	CD CAM B SW A CONTROL
6	ANI4	CAM B SW B	Input	CD CAM B SW B CONTROL
		TRAY SW A	Input	CD TRAY SW A
7	ANI5	TRAY SW B	Input	CD TRAY SW B
		TRAY SW C	Input	CD TRAY SW C
8	ANI6	KEY 0	Input	KEY INPUT
9	ANI7	KEY 1	Input	KEY INPUT
10	ANI8	KEY 2	Input	KEY INPUT
11	ANI9	T1RUN	Input	TAPE 1 RUN PULSE INPUT
12	ANI10	T2RUN	Input	TAPE 2 RUN PULSE INPUT
13*	ANI11	TUN SM	Input	TUNER SIGNAL METER
		SPN	Input	TUNER SPAN SELECT
14	AVSS	AVSS	—	ANALOG GND
15	VSS1	VSS1	—	GND
16	X1	X1	Input	MAIN CLOCK
17	X2	X2	Output	MAIN CLOCK
18	VDD1	VDD1	Input	(+) POWER SUPPLY
19	IC(VPP)	IC(VPP)	—	OPEN
20	T100	REMOCON	Input	REMOTE CONTROL INPUT
21	P25	CD DO	Input	CD DSP CODE O OUT
22	P26	CD DI	Output	CD DSP COMMAND
23	P27	CD CLK	Output	CD DSP CLOCK
24	P67	CD CE	Output	CD DSP CE
25	P66	WRQ	Input	CD DSP WRITE REQUEST
26	INTP1	SP DET	Input	CD RF LEVEL DETECTION
27	INTP0	P IN	Input	SYSTEM STOP INPUT
28	P63	CE O	Output	CE OUTPUT
29	P62	CLK	Output	CLOCK OUTPUT
30	P61	DI	Output	DATA OUTPUT
31	P60	DO	Input	DATA INPUT
32	P57	TIMER LED	Output	TIMER LED CONTROL
33	P56	T SOL A	Output	TAPE 1 SOLENOID CONTROL
34	P55	T SOL B	Output	TAPE 2 SOLENOID CONTROL
35	P54	T MOTOR	Output	TAPE MOTOR CONTROL
36	P53	MICOM RESET	Input	MICROCOMPUTER RESET
37	P52	PLAY SW B	Input	PLAY SWITCH FOR TAPE 2
38	P51	FPA	Input	TAPE 2 A-SIDE FULL PROOF
39*	P50	FPB	Input	TAPE 2 B-SIDE FULL PROOF
40	VSS0	VSS0	—	GND
41	VDD0	VDD0	—	(+) POWER SUPPLY
42	RESET	RESET	Input	RESET
43	P47	RESOUT	Output	CD DSP RESET
44*	P46	RDS RST/HSS ACK	Output	RAM RESET/ESS SYS ACKNOL
45*	P45	RDS RDDA/HSS STB	Input	RANSMIT DATA INPUT/ESS STB
46*	P44	RDS RDCL/HSS DI	Output	RDS CLOCK/ESS DATA OUTPUT

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

CD-BA3100

IC701 RH-iX0400AWZZ: System Microcomputer (IX0400AW) (2/2)

Pin No.	Port Name	Terminal Name	Input/Output	Function
47*	P43	RDS READY/HSS DO	Input	READY/ESS DATA INPUT
48*	P42	DSA ACK	Output	DSA ACKNOWLEDGE
49*	P41	DSA DATA	Input	DSA DATA INPUT
50*	P40	DSA STB	Input/Output	DSA STROBE
51	P107	REC/PLAY	Output	TAPE REC/PLAY CHANGE
52	P106	T T1/T2	Output	TAPE T1/T2 CHANGE
53	P105	T BIAS	Output	TAPE RECORD BIAS
54*	P104	CE 1	Output	CE OUTPUT AUDIO PRO 1
55*	P103	CE 2	Output	CE OUTPUT AUDIO PRO 2
56	P102	SPRLY	Output	SPEAKER RELAY
57*	P101	AC RLY	Output	AC RELAY CONTROL
58	P100	LCK 0	Output	LED DRIVER CLOCK 0 (BU209)
59	P97	LCK 1	Output	LED DRIVER CLOCK 1 (BU209)
60	P96	-20dB ATT	Output	VOL -20dB ATTENUATOR
61*	P95	SMUTE	Output	SYSTEM MUTE
62	P94	DRF/DVD BUS 5	Input	CD DRF LEVEL DETECTION
63	P93	JOG 0	Input	KEY JOG INPUT 0
64	P92	JOG 1	Input	KEY JOG INPUT 1
65*	P91	MIC SW	Input	MIC SWITCH
66	P90	FL LATCH	Output	FL DRIVER CONTROL
67*	P87	KARAOKE LATCH	Output	KARAOKE LATCH (WHEN NOT USED. CONNECT TO 0V)
68*	P86	MPEG POW	Output	MPEG POW CONTROL
69	P85	DIST IN	Input	DESTINATION INPUT
70	FIP28	P1	Output	FL DISPLAY SEGMENT DRIVER
		DIST 9	Output	VCD LOGO
71	FIP27	P2	Output	FL DISPLAY SEGMENT DRIVER
		DIST 8	Output	VCD LOGO
72	FIP26	P3	Output	FL DISPLAY SEGMENT DRIVER
		DIST 7	Output	PAL/NTSC
73	FIP25	P4	Output	FL DISPLAY SEGMENT DRIVER
		DIST 6	Output	VIDEO 2 AND AC3 READY
74	FIP24	P5	Output	FL DISPLAY SEGMENT DRIVER
		DIST 5	Output	KEY CONTROL MODE
75	FIP23	P6	Output	FL DISPLAY SEGMENT DRIVER
		DIST 4	Output	KARAOKE MODE
76	FIP22	P7	Output	FL DISPLAY SEGMENT DRIVER
		DIST 3	Output	TAPE REVERSE
77	FIP21	P8	Output	FL DISPLAY SEGMENT DRIVER
		DIST 2	Output	ECO MODE
78	FIP20	P9	Output	FL DISPLAY SEGMENT DRIVER
		DIST 1	Output	CLOCK DESTINATION
79	VDD2	VDD2	—	VDD
80	VLOAD	VLOAD	Input	FL DRIVER (–) POWER SUPPLY
81	FIP19	P10	Output	FL DISPLAY SEGMENT DRIVER
		DIST 0	Output	TUNER DESTINATION
82-84	FIP18-16	P11-P13	Output	FL DISPLAY SEGMENT DRIVER
		SPEANA SEL A-C	Output	SPEANA SELECT A-C
85-92	FIP15-FIP8	P14-P21	Output	FL DISPLAY SEGMENT DRIVER
93-100	FIP7-FIP0	G1-G8	Output	FL DISPLAY GRID

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC601 VHiLC75341/-1: Audio Processor (LC75341)

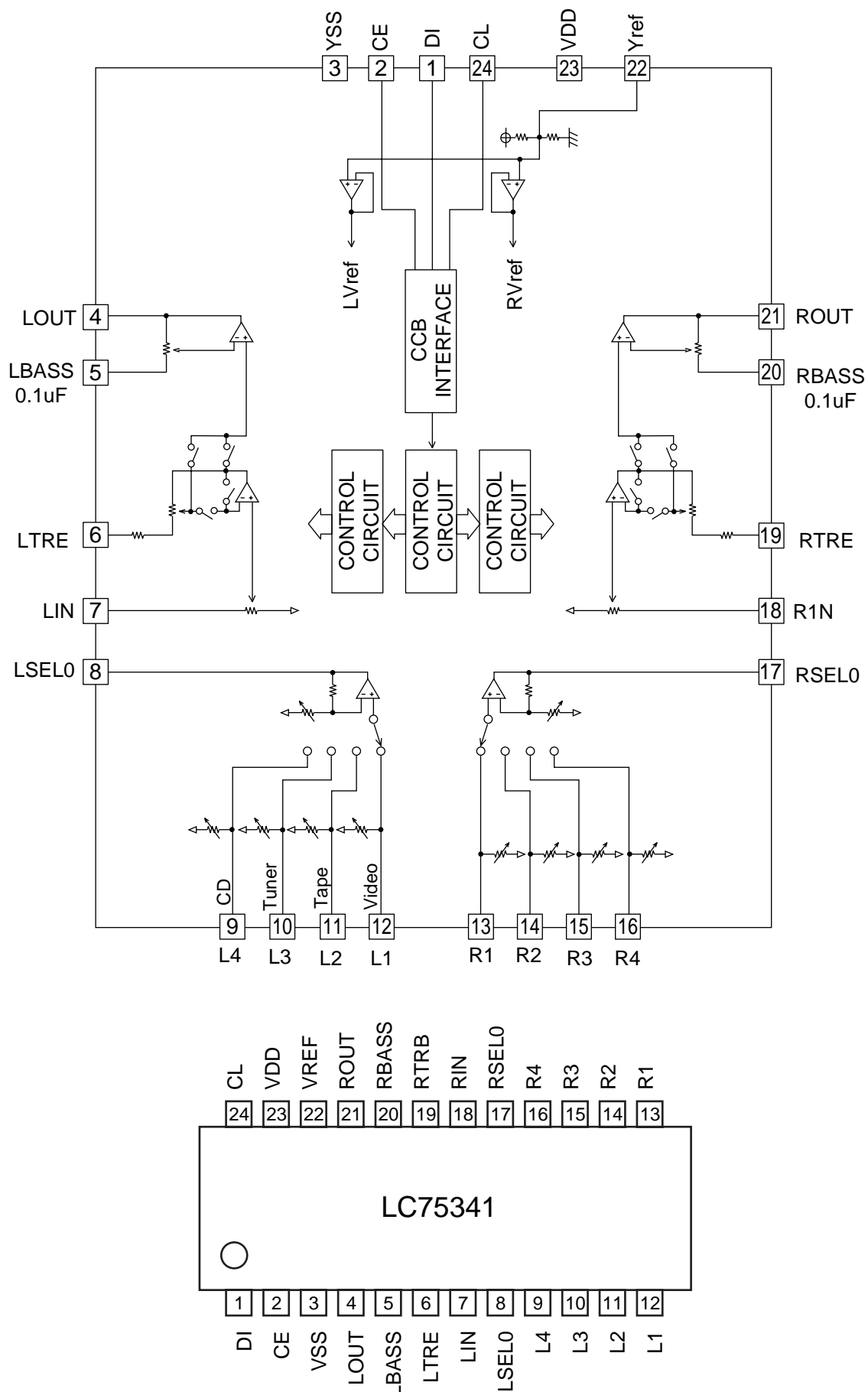
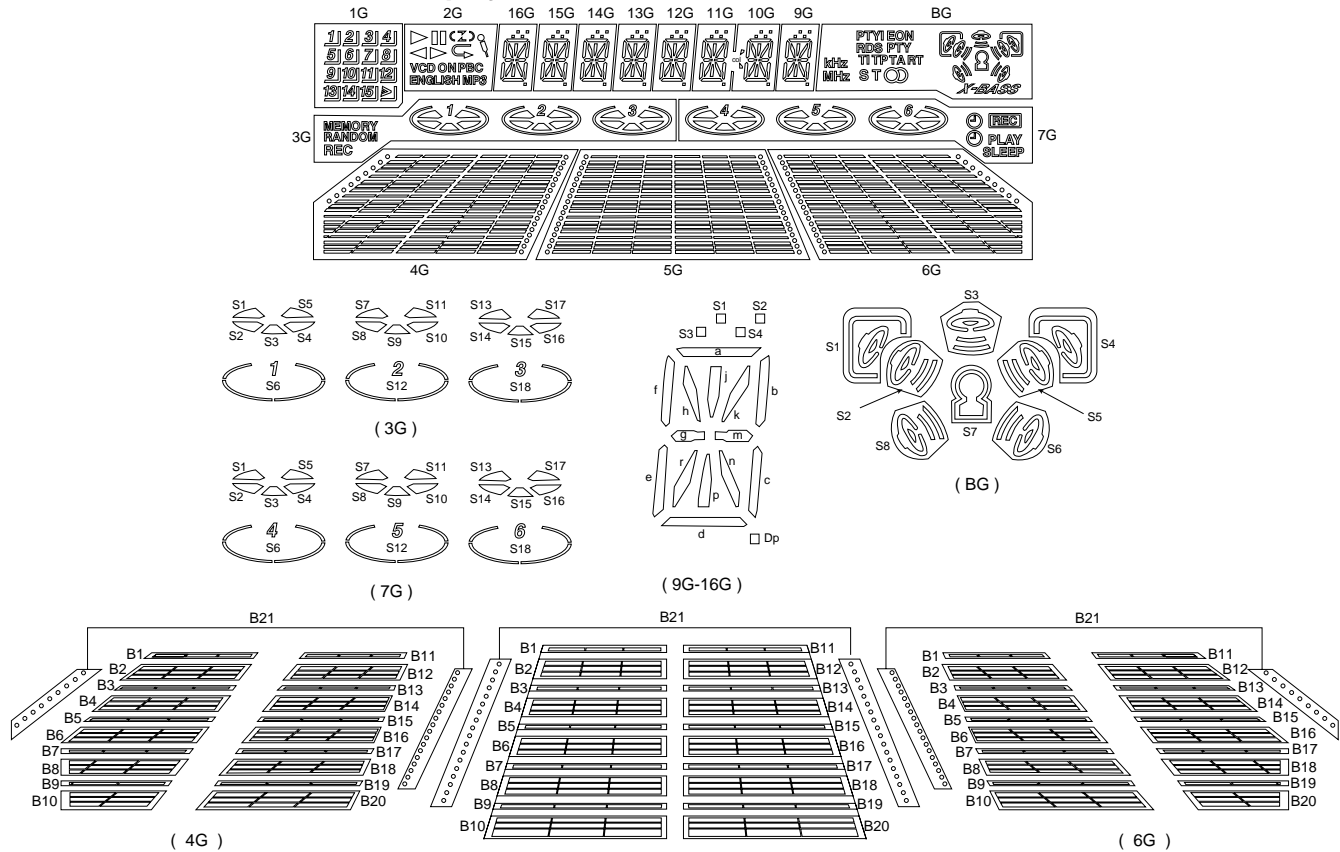


Figure 57 BLOCK DIAGRAM OF IC

FL701 VVKNA16LM17-1: FL Display

FL701 VVKNA16LM17-1: FL Display



PIN CONNECTION

PIN NO.	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
CONNECTION	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	1G	2G	3G	4G	5G	6G	7G	8G	NP	F1	F1	F1

PIN NO.	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24
CONNECTION	P26	P25	P24	P23	P22	16G	15G	14G	13G	12G	11G	10G	9G	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10

PIN NO.	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	Note 1) Fr: Filament pin 2) G: Grid pin 3) An: Anode pin NP: No pin		
CONNECTION	F2	F2	F2	NP	P41	P40	P39	P38	P37	P36	P35	P34	P33	P32	P31	P30	P29	P28	P27			

ANODE CONNECTION

	11G-16G	10G	9G	8G	7G	6G-4G	3G	2G	1G
P1	—	—	—	S1	S1	B1	S1		
P2	—	—	—	S2	S2	B2	S2		
P3	—	—	—	S3	S3	B3	S3		
P4	—	—	—	S4	S4	B4	S4		
P5	—	—	—	S5	S5	B5	S5		
P6	—	—	—	S6	S6	B6	S6		
P7	—	—	—	S7	S7	B7	S7		
P8	—	—	—	S8	S8	B8	S8		
P9	—	—	—		S9	B9	S9		
P10	—	—	—		S10	B10	S10		
P11	—	—	—		S11	B11	S11		
P12	—	—	—		S12	B12	S12		
P13	—	—	—		S13	B13	S13		
P14	—	—	—		S14	B14	S14	—	
P15	—	—	—		S15	B15	S15	—	
P16	—	—	—		S16	B16	S16	—	
P17	—	—	—		S17	B17	S17	—	—
P18	—	—	—		S18	B18	S18	—	—
P19	—	—	—			B19		—	—
P20	—	—	—			B20		—	—
P21	—	—	—			B21		—	—
P22	S1	S1	S1	—	—	—	—	—	—
P23	S2	S2	S2	—	—	—	—	—	—
P24	S3	S3	S3	—	—	—	—	—	—
P25	S4	S4	S4	—	—	—	—	—	—
P26	a	a	a	—	—	—	—	—	—
P27	h	h	h	—	—	—	—	—	—
P28	j	j	j	—	—	—	—	—	—
P29	k	k	k	—	—	—	—	—	—
P30	b	b	b	—	—	—	—	—	—
P31	f	f	f	—	—	—	—	—	—
P32	—	col	—	—	—	—	—	—	—
P33	m	m	m	—	—	—	—	—	—
P34	g	g	g	—	—	—	—	—	—
P35	c	c	c	—	—	—	—	—	—
P36	e	e	e	—	—	—	—	—	—
P37	r	r	r	—	—	—	—	—	—
P38	p	p	p	—	—	—	—	—	—
P39	n	n	n	—	—	—	—	—	—
P40	d	d	d	—	—	—	—	—	—
P41	Dp	Dp	Dp	—	—	—	—	—	—

SHARP PARTS GUIDE

MINI COMPONENT SYSTEM

MODEL CD-BA3100

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CD-BA3100 (main unit) and CP-BA3100 (speaker system).

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Explanation of capacitors/resistors parts codes

Capacitors

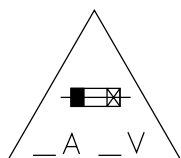
VCC Ceramic type
VCK Ceramic type
VCT Semiconductor type
VC •• MF Cylindrical type (without lead wire)
VC •• MN Cylindrical type (without lead wire)
VC •• TV Square type (without lead wire)
VC •• TQ Square type (without lead wire)
VC •• CY Square type (without lead wire)
VC •• CZ Square type (without lead wire)
VC J .. The 13th character represents capacity difference.
("J" $\pm 5\%$, "K" $\pm 10\%$, "M" $\pm 20\%$, "N" $\pm 30\%$,
"C" ± 0.25 pF, "D" ± 0.5 pF, "Z" $+80-20\%$.)

If there are no indications for the electrolytic capacitors, error is $\pm 20\%$.

Resistors

VRD Carbon-film type
VRS Carbon-film type
VRN Metal-film type
VR •• MF Cylindrical type (without lead wire)
VR •• MN Cylindrical type (without lead wire)
VR •• TV Square type (without lead wire)
VR •• TQ Square type (without lead wire)
VR •• CY Square type (without lead wire)
VR •• CZ Square type (without lead wire)
VR J .. The 13th character represents error.
("J" $\pm 5\%$, "F" $\pm 1\%$, "D" $\pm 0.5\%$.)

If there are no indications for other parts, the resistors are $\pm 5\%$ carbon-film type.



CAUTION:FOR CONTINUED
PROTECTION AGAINST FIRE
HAZARD, REPLACE ONLY WITH
SAME TYPE F800,F801 4A/125V / F802,F803,
F806 5A/125V / F804,F805 2A/125V FUSES

ATTENTION:POUR ASSURER
UNE LONGUE PROTECTION CONTRE
UN INCENDIE, REMPLACER SEULEMENT
PAR UN FUSIBLE DE
TYPE F800,F801 4A/125V / F802,F803,
F806 5A/125V / F804,F805 2A/125V

NOTE:

Parts marked with "△" are important for maintaining the safety of the set.
Be sure to replace parts with specified ones for maintaining the safety and performance of the set.

CD-BA3100

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
CD-BA3100				
INTEGRATED CIRCUITS				
IC1	VHILC78645E-1	J	AY	CD Servo,LC78645E
IC2	VHIM63001FP-1	J	AX	Focus/Tracking/Spin/Sled Driver, M63001FP
IC101	VHIAN7345K/-1	J	AM	Playback and Record/Playback Amp.,AN7345K
IC301	VHITA7358AP-1	J	AG	FM Front End,TA7358AP
IC302	VHILC72131/-1	J	AP	PLL (Tuner),LC72131
IC303	VHILA1832S/-1	J	AN	FM IF Det./FM Mpx./AM IF, LA1832S
IC601	VHILC75341/-1	J	AM	Audio Processor,LC75341
IC701	RH-IX0400AWZZ	J	AZ	System Microcomputer, IX0400AW
IC702	VHID16315GB-1	J	AM	,D16315GB
IC703	VHIBA3835F/-1	J	AS	Band Pass Filter,BA3835F
IC901	VHISTK40270N1	J	AY	Power Amp.,STK40270N
IC902	VHISTK40270N1	J	AY	Power AMP.,STK40270N

TRANSISTORS

Q1	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q2	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
Q3~12	VSKRC107M/-1	J	AC	Digital,NPN,KRC107 M
Q103~106	VS2SC1845F/-1	J	AC	Silicon,NPN,2SC1845 F
Q107,108	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q109	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q110,111	VSKRC104M/-1	J	AC	Digital,NPN,KRC104 M
Q121,122	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q124	VS2SA1015GR-1	J	AB	Silicon,PNP,2SA1015 GR
Q126	VSKRC104M/-1	J	AC	Digital,NPN,KRC104 M
Q128	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
Q302	VSKTC3194Y/-1	J	AD	Silicon,NPN,KTC3194 Y
Q360	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q603,604	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q701~703	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q704~706	VSKTA1273Y/-1	J	AE	Silicon,PNP,KTA1273 Y
Q707	VSKRC102M/-1	J	AC	Digital,NPN,KRC102 M
Q708,709	VSKRC107M/-1	J	AC	Digital,NPN,KRC107 M
Q801	VSKTA1274Y/-1	J	AE	Silicon,PNP,KTA1274 Y
Q850	VSKTC2026/-1	J	AF	Silicon,NPN,KTC2026
Q851	VHIKIA7810AP1	J	AF	Voltage Regulator,KIA7810 AP
Q852	VHIKIA7805AP1	J	AF	Constant Voltage Regulator, KIA7805 AP
Q901~909	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q910	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
Q990	VSKRC107M/-1	J	AC	Digital,NPN,KRC107 M
Q991	VSKRA107M/-1	J	AE	Digital,PNP,KRA107 M

DIODES

D301,302	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D305	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D601,602	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D711~718	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D801	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D802,803	VHDT56B04GM-1	J	AP	Silicon,TS6B04GM
D804~809	VHDDS1N404S-1	J	AB	Silicon,DS1N404S
D818	VHDDS1N404S-1	J	AB	Silicon,DS1N404S
D819,820	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D901~907	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D909	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
DZ801A	VHEDZ2R4BSB-1	J	AB	Zener,2.4V,DZ2.4BSB
LED701	VHP4204SRT121	J	AD	LED,Red,4204SRT121
LED710,711	VHP4204UYT121	J	AD	LED,Yellow,4204UYT121
ZD1	VHEDZ3R3BSB-1	J	AB	Zener,3.3V,DZ3.3BSB
ZD2	VHEDZ3R9BSB-1	J	AC	Zener,3.9V,DZ3.9BSB
ZD351	VHEDZ5R1BSB-1	J	AC	Zener,5.1V,DZ5.1BSB
ZD801B	VHEDZ300BSC-1	J	AB	Zener,30V,DZ300BSC
ZD802	VHEDZ6R2BSA-1	J	AB	Zener,6.2V,DZ6.2BSA
ZD806	VHEDZ110BSB-1	J	AB	Zener,11V,DZ110BSB

FILTERS

BF301	RFILR0008AWZZ	J	AE	Band Pass Filter
CF303	RFILF0124AFZZ	J	AD	FM IF,10.7 MHz
CF351	RFILF0003AWZZ	J	AK	FM IF
CF352	RFILA0009AWZZ	J	AE	AM IF

TRANSFORMERS

T301	RCILB0065AWZZ	J	AC	FM OSC.
T302	RCIL10017AWZZ	J	AB	FM IF
T303	RCILA0052AWZZ	J	AE	AM Tracking
T306	RCILB0067AWZZ	J	AD	AM OSC.
T351	RCIL10019AWZZ	J	AD	AM IF
△ T801	RTRNP0357AWZZ	J	BF	Power

COILS

L2	VP-XHR82K0000	J	AC	0.82 μH
L104	VP-MK331K0000	J	AB	330 μH,Choke
L312	RCILR0056AWZZ	J	AB	FM RF
L351,352	VP-DH101K0000	J	AB	100 μH,Choke
L902~905	RCILZ0137AFZZ	J	AA	0.29 μH

VARIABLE CAPACITORS

VD301	VHCSVC348S/-1	J	AK	Variable Capacitance,SVC348S
VD302	VHCSVC211C/-1	J	AG	Variable Capacitance,SVC211C
VD303	VHCSVC211C/-1	J	AG	Variable Capacitance,SVC211C

VIBRATORS

X351	92LCRSTL1425A	J	AF	Crystal,456 kHz
X352	RCRSP0019AWZZ	J	AF	Crystal,4.5 MHz
XL1	RCRM-0041AWZZ	J	AF	Ceramic,33.8688 MHz
XL701	RCRSP0026AWZZ	J	AG	Crystal,4.194304 MHz

CAPACITORS

C1	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C2	VCTYPA1CX103K	J	AA	0.01 μF,16V
C3	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C4	VCKYPA1HB102K	J	AA	0.001 μF,50V
C5	VCTYPA1CX473K	J	AA	0.047 μF,16V
C6	VCTYPA1CX104K	J	AB	0.1 μF,16V
C7	VCKYPA1HB101K	J	AA	100 pF,50V
C8	VCKYPU1HB472K	J	AA	0.0047 μF,50V
C9	VCEAZA1CW107M	J	AC	100 μF,16V,Electrolytic
C10	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic
C11	VCEAZA1HW224M	J	AB	0.22 μF,50V,Electrolytic
C12	VCKYPA1HB101K	J	AA	100 pF,50V
C13	VCTYPA1CX103K	J	AA	0.01 μF,16V
C14	VCEAZA1CW107M	J	AC	100 μF,16V,Electrolytic
C15	VCEAZA1CW227M	J	AC	220 μF,16V,Electrolytic
C16	VCTYPA1CX473K	J	AA	0.047 μF,16V
C17	VCEAZA1CW477M	J	AC	470 μF,16V,Electrolytic
C18	VCEAZA1CW107M	J	AC	100 μF,16V,Electrolytic
C23	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C24	VCKZPA1HF223Z	J	AA	0.022 μF,50V
C25	VCEAZA1CW107M	J	AC	100 μF,16V,Electrolytic
C27	VCKYPU1HB472K	J	AA	0.0047 μF,50V
C28	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic
C29	VCEAZA0JW337M	J	AC	330 μF,6.3V,Electrolytic
C30	VCKZPA1HF223Z	J	AA	0.022 μF,50V
C31	VCKYPU1HB472K	J	AA	0.0047 μF,50V
C32	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic
C37	VCTYPA1CX473K	J	AA	0.047 μF,16V
C38	VCEAZA1HW225M	J	AB	2.2 μF,50V,Electrolytic
C39	VCTYPA1CX104K	J	AB	0.1 μF,16V
C40	VCKZPA1HF223Z	J	AA	0.022 μF,50V
C41,42	VCKYPA1HB101K	J	AA	100 pF,50V
C43	VCKYPA1HB101K	J	AA	100 pF,50V
C44	VCKYPA1HB101K	J	AA	100 pF,50V
C45~47	VCKYPA1HB101K	J	AA	100 pF,50V
C48	VCTYPA1CX103K	J	AA	0.01 μF,16V
C51	VCKYBT1HB102K	J	AA	0.001 μF,50V
C52	VCTYPA1CX103K	J	AA	0.01 μF,16V
C53	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C54	VCCCPA1HH220J	J	AA	22 pF (CH),50V
C55,56	VCTYBT1HB102K	J	AA	0.001 μF,50V
C101,102	VCKYMN1HB561K	J	AA	560 pF,50V
C105	VCKYBT1HB181K	J	AA	180 pF,50V
C106	VCKYMN1HB181K	J	AA	180 pF,50V
C107,108	VCKYMN1HB561K	J	AA	560 pF,50V
C111~114	VCKYMN1HB331K	J	AA	330 pF,50V
C115,116	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C117,118	VCTYPA1EX333K	J	AA	0.033 μF,25V

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION	NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
C119,120	VCKYMN1HB561K	J	AA	560 pF,50V	C606	VCEAZA1CW107M	J	AC	100 μF,16V,Electrolytic
C121,122	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic	C607~610	VCQYKA1HM104K	J	AB	0.1 μF,50V,Mylar
C123,124	VCTYMN1CX222K	J	AA	0.0022 μF,16V	C611,612	VCQYKA1HM272K	J	AA	0.0027 μF,50V,Mylar
C127	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C613,614	VCEAZA1HW225M	J	AB	2.2 μF,50V,Electrolytic
C128	VCEAZA1HW335M	J	AB	3.3 μF,50V,Electrolytic	C617	VCEAZA1HW226M	J	AB	22 μF,50V,Electrolytic
C131,132	VCKYMN1HB271K	J	AA	270 pF,50V	C619~630	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic
C133,134	VCEAZA1HW226M	J	AB	22 μF,50V,Electrolytic	C631,632	VCKYMN1HB391K	J	AA	390 pF,50V
C135,136	VCTYPA1CX223K	J	AA	0.022 μF,16V	C634	VCKYMN1HB102K	J	AA	0.001 μF,50V
C139,140	VCTYMN1CX332K	J	AA	0.0033 μF,16V	C701	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C141,142	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic	C702	RC-EZD476AF1E	J	AC	47 μF,25V,Electrolytic
C145	VCEAZA1HW226M	J	AB	22 μF,50V,Electrolytic	C703	VCEAZA1HW476M	J	AB	47 μF,50V,Electrolytic
C146	VCEAZA1AW227M	J	AC	220 μF,10V,Electrolytic	C704	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C150	VCQPKA2AA822J	J	AA	0.0082 μF,100V,Polypropylene	C705	RC-EZD476AF1E	J	AC	47 μF,25V,Electrolytic
C151	VCQYKA1HM393K	J	AB	0.039 μF,50V,Mylar	C706	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C152	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic	C707~710	VCKYBT1HF104Z	J	AC	0.1 μF,50V
C153	VCEAZA1CW107M	J	AC	100 μF,16V,Electrolytic	C711	VCCSMN1HL180J	J	AA	18 pF,50V
C154	VCQYKA1HM473K	J	AB	0.047 μF,50V,Mylar	C712	VCCSMN1HL150J	J	AA	15 pF,50V
C155	VCEAZA1HW226M	J	AB	22 μF,50V,Electrolytic	C713	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C156	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic	C714	VCEAZA1AW227M	J	AC	220 μF,10V,Electrolytic
C157	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic	C715	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C301	VCKYMN1HB102K	J	AA	0.001 μF,50V	C716,717	VCKYMN1HB102K	J	AA	0.001 μF,50V
C303	VCCCMN1HH100J	J	AA	10 pF (CH),50V	C722	RC-EZD335AF1H	J	AB	3.3 μF,50V,Electrolytic
C304	VCTYMN1CY103N	J	AA	0.01 μF,16V	C723,724	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C305	VCCCMN1HH4R7C	J	AA	4.7 pF (CH),50V	C725	RC-EZD476AF1E	J	AC	47 μF,25V,Electrolytic
C306	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C726	VCEAZA1HW476M	J	AB	47 μF,50V,Electrolytic
C307	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic	C727	VCKYMN1HB391K	J	AA	390 pF,50V
C308	VCCUMN1HJ4R7D	J	AA	4.7 pF (UJ),50V	C801,802	VCEAZW1HW228M	J	AH	2200 μF,50V,Electrolytic
C309	VCKYMN1HB102K	J	AA	0.001 μF,50V	C803~806	VCQYKA1HM473K	J	AB	0.047 μF,50V,Mylar
C310	VCCCMN1HH150J	J	AA	15 pF (CH),50V	C807,808	VCEAZA1HW107M	J	AC	100 μF,50V,Electrolytic
C311	VCCSMN1HL180J	J	AA	18 pF,50V	C809	VCEAZA1HW227M	J	AC	220 μF,50V,Electrolytic
C312	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C810,811	VCEAZA1HW476M	J	AB	47 μF,50V,Electrolytic
C313	VCCCMN1HH220J	J	AA	22 pF (CH),50V	C812	VCEAZA1VW107M	J	AC	100 μF,35V,Electrolytic
C314,315	VCTYMN1CX472K	J	AA	0.0047 μF,16V	C813,814	RC-EZ0063AWZZ	J	AM	2200/63,Electrolytic
C316	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C825	VCEAZA1HW335M	J	AB	3.3 μF,50V,Electrolytic
C317	VCKYMN1HB102K	J	AA	0.001 μF,50V	C830	VCEAZA0JW108M	J	AC	1000 μF,6.3V,Electrolytic
C318	VCKYMN1HB101K	J	AA	100 pF,50V	C832,833	VCQYKA1HM473K	J	AB	0.047 μF,50V,Mylar
C320	VCKYBT1HB102K	J	AA	0.001 μF,50V	C850	VCEAZW1VW228M	J	AH	2200 μF,35V,Electrolytic
C323	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C851	VCEAZA1HW226M	J	AB	22 μF,50V,Electrolytic
C324	VCCUMN1HJ3R9K	J	AA	3.9 pF (UJ),50V	C852	VCQYKA1HM473K	J	AB	0.047 μF,50V,Mylar
C330	VCCSMN1HL150J	J	AA	15 pF,50V	C855	VCQYKA1HM473K	J	AB	0.047 μF,50V,Mylar
C331	VCKYPA1HF473Z	J	AB	0.047 μF,50V	C857	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C332	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C858	VCQYKA1HM473K	J	AB	0.047 μF,50V,Mylar
C334	VCCUMN1HJ270J	J	AA	27 pF (UJ),50V	C860	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C335	VCKYMN1HB561K	J	AA	560 pF,50V	C861	VCEAZW1CW478M	J	AG	4700 μF,16V,Electrolytic
C338	VCKYMN1HB102K	J	AA	0.001 μF,50V	C901,902	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic
C342	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C903,904	VCEAZA1HW107M	J	AC	100 μF,50V,Electrolytic
C350,351	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C905	VCKZPA1HF223Z	J	AA	0.022 μF,50V
C352	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic	C906,907	VCCSPA1HL221J	J	AA	220 pF,50V
C353,354	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C908	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic
C355	VCCSMN1HL220J	J	AA	22 pF,50V	C909,910	VCCSPA1HL150J	J	AA	15 pF,50V
C356	VCKYMN1HB102K	J	AA	0.001 μF,50V	C911	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic
C357	VCEAZA1HW225M	J	AB	2.2 μF,50V,Electrolytic	C912	VCKZPA1HF223Z	J	AA	0.022 μF,50V
C358	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic	C914	VCEAZA1HW476M	J	AB	47 μF,50V,Electrolytic
C361	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C916~919	VCQYKA1HM104K	J	AB	0.1 μF,50V,Mylar
C362	VCEAZA1HW335M	J	AB	3.3 μF,50V,Electrolytic	C920,921	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic
C363	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C922,923	VCEAZA1HW107M	J	AC	100 μF,50V,Electrolytic
C364	VCEAZA1HW475M	J	AB	4.7 μF,50V,Electrolytic	C924,925	VCKZPA1HF223Z	J	AA	0.022 μF,50V
C365	VCTYPA1CX223K	J	AA	0.022 μF,16V	C926,927	VCTYPA1EX152K	J	AA	0.0015 μF,25V
C366	VCKYMN1HB102K	J	AA	0.001 μF,50V	C928,929	VCCSPA1HL150J	J	AA	15 pF,50V
C367,368	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic	C930,931	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic
C369	VCCUMN1HJ270J	J	AA	27 pF (UJ),50V	C932	VCEAZA1HW476M	J	AB	47 μF,50V,Electrolytic
C370~372	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic	C935,936	VCQYKA1HM104K	J	AB	0.1 μF,50V,Mylar
C373,374	VCTYPA1CX153K	J	AA	0.015 μF,16V	C938	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic
C380	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic	C939,940	VCQYKA1HM104K	J	AB	0.1 μF,50V,Mylar
C381	VCCCMN1HH120J	J	AA	12 pF (CH),50V	C941,942	VCQYKA1HM123K	J	AA	0.012 μF,50V,Mylar
C382	VCCCMN1HH150J	J	AA	15 pF (CH),50V	C943,944	VCKYPA1HB102K	J	AA	0.001 μF,50V
C384	VCKYMN1HB102K	J	AA	0.001 μF,50V	C954,955	VCQYKA1HM823K	J	AC	0.082 μF,50V,Mylar
C385	VCTYMN1CY103N	J	AA	0.01 μF,16V	C958,959	VCEAZA1HW224M	J	AB	0.22 μF,50V,Electrolytic
C386	VCKYMN1HB331K	J	AA	330 pF,50V	C960,961	VCQYKA1HM104K	J	AB	0.1 μF,50V,Mylar
C387	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C990,991	VCEAZA1HW224M	J	AB	0.22 μF,50V,Electrolytic
C388	VCKYMN1HB102K	J	AA	0.001 μF,50V					
C391	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic					
C392	VCKYMN1HB102K	J	AA	0.001 μF,50V					
C393	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic					
C394	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic					
C395	VCTYMN1EF223Z	J	AA	0.022 μF,25V					
C396	VCEAZA1AW107M	J	AB	100 μF,10V,Electrolytic					
C397	VCTYMN1EF223Z	J	AA	0.022 μF,25V					
C398	VCEAZA1AW107M	J	AB	100 μF,10V,Electrolytic					
C399	VCTYMN1EF223Z	J	AA	0.022 μF,25V					
C602	VCEAZA1HW226M	J	AB	22 μF,50V,Electrolytic					
C604	VCTYMN1EF223Z	J	AA	0.022 μF,25V					

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
VRD-MN2BD000C	J	AA		0 ohm,Jumper,ø1.4×3.5mm,Ivory
R1	VRD-ST2CD333J	J	AA	33 kohms,1/6W
R2,3	VRD-ST2CD123J	J	AA	12 kohms,1/6W
R4	VRD-ST2CD333J	J	AA	33 kohms,1/6W
R5,6	VRD-ST2CD123J	J	AA	12 kohms,1/6W
R7	VRD-ST2CD470J	J	AA	47 ohms,1/6W
R8	VRD-ST2CD3R3J	J	AA	3.3 ohms,1/6W
R9	VRD-ST2CD273J	J	AA	27 kohms,1/6W

RESISTORS

CD-BA3100

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION	NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
R10	VRD-ST2CD103J	J	AA	10 kohm,1/6W	R360	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R11	VRD-ST2CD331J	J	AA	330 ohms,1/6W	R365	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R12	VRD-ST2CD123J	J	AA	12 kohms,1/6W	R372-374	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R13-19	VRD-ST2CD102J	J	AA	1 kohm,1/6W	R375	VRD-ST2CD471J	J	AA	470 ohms,1/6W
R21	VRD-ST2CD221J	J	AA	220 ohms,1/6W	R376	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R22	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W	R377	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R23	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W	R378	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R24	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W	R379	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R25	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W	R380	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R26	VRD-ST2CD101J	J	AA	100 ohm,1/6W	R381	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R27,28	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W	R382	VRD-ST2EE151J	J	AA	150 ohms,1/4W
R29-36	VRD-ST2CD102J	J	AA	1 kohm,1/6W	R383	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R37,38	VRD-ST2CD681J	J	AA	680 ohms,1/6W	R384	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R39	VRD-ST2CD123J	J	AA	12 kohms,1/6W	R385	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R40	VRD-ST2CD122J	J	AA	1.2 kohms,1/6W	R386	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R41	VRD-ST2CD822J	J	AA	8.2 kohms,1/6W	R387	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R42	VRD-ST2CD153J	J	AA	15 kohms,1/6W	R388	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R43	VRD-ST2CD822J	J	AA	8.2 kohms,1/6W	R391,392	VRD-ST2EE271J	J	AA	270 ohms,1/4W
R44	VRD-ST2CD153J	J	AA	15 kohms,1/6W	R393	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R45	VRD-ST2CD822J	J	AA	8.2 kohms,1/6W	R395	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R46	VRD-ST2CD153J	J	AA	15 kohms,1/6W	R605,606	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R47	VRD-ST2CD822J	J	AA	8.2 kohms,1/6W	R607	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R48	VRD-ST2CD153J	J	AA	15 kohms,1/6W	R608	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R49	VRD-ST2CD822J	J	AA	8.2 kohms,1/6W	R609,610	VRD-ST2CD331J	J	AA	330 ohms,1/6W
R50	VRD-ST2CD153J	J	AA	15 kohms,1/6W	R611	VRD-MN2BD273J	J	AA	27 kohms,1/8W
R51,52	VRD-ST2CD101J	J	AA	100 ohm,1/6W	R612	VRD-ST2CD273J	J	AA	27 kohms,1/6W
R53	VRD-ST2CD103J	J	AA	10 kohm,1/6W	R613,614	VRD-MN2BD391J	J	AA	390 ohms,1/8W
R54-63	VRD-ST2CD102J	J	AA	1 kohm,1/6W	R615,616	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R101	VRD-MN2BD102J	J	AA	1 kohm,1/8W	R619	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R102	VRD-ST2CD102J	J	AA	1 kohm,1/6W	R623,624	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R103,104	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W	R625,626	VRD-MN2BD822J	J	AA	8.2 kohms,1/8W
R105,106	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W	R631,632	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
R107,108	VRD-MN2BD473J	J	AA	47 kohms,1/8W	R633,634	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R109,110	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W	R637,638	VRD-MN2BD184J	J	AA	180 kohms,1/8W
R111,112	VRD-MN2BD153J	J	AA	15 kohms,1/8W	R641-643	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R113,114	VRD-MN2BD103J	J	AA	10 kohm,1/8W	R700	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R115	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W	R701,702	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R117,118	VRD-MN2BD102J	J	AA	1 kohm,1/8W	R703	VRD-MN2BD823J	J	AA	82 kohms,1/8W
R119	VRD-ST2CD560J	J	AA	56 ohms,1/6W	R704-706	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R120	VRD-MN2BD560J	J	AA	56 ohms,1/8W	R707	VRD-MN2BD330J	J	AA	33 ohms,1/8W
R121,122	VRD-MN2BD104J	J	AA	100 kohm,1/8W	R708-710	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R123,124	VRD-MN2BD272J	J	AA	2.7 kohms,1/8W	R711	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R125,126	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W	R712	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R131,132	VRD-MN2BD333J	J	AA	33 kohms,1/8W	R713-717	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R134	VRD-MN2BD683J	J	AA	68 kohms,1/8W	R718-728	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R135,136	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W	R730	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R137	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W	R731	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R138	VRD-ST2CD682J	J	AA	6.8 kohms,1/6W	R732	VRD-ST2CD101J	J	AA	100 ohm,1/6W
R139,140	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W	R733-736	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R141,142	VRD-MN2BD101J	J	AA	100 ohm,1/8W	R737,738	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R145,146	VRD-MN2BD103J	J	AA	10 kohm,1/8W	R739	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R153,154	VRD-MN2BD103J	J	AA	10 kohm,1/8W	R740	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R155	VRD-ST2EE151J	J	AA	150 ohms,1/4W	R741	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R156	VRD-ST2CD224J	J	AA	220 kohms,1/6W	R742	VRD-ST2CD182J	J	AA	1.8 kohms,1/6W
R157	VRD-MN2BD224J	J	AA	220 kohms,1/8W	R743	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R158	VRD-ST2EE221J	J	AA	220 ohms,1/4W	R744	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R160	VRD-R12HD820J	J	AA	82 ohms,1/2W	R745	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R162	VRD-MN2BD473J	J	AA	47 kohms,1/8W	R746,747	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R164	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W	R749,750	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R166	VRD-MN2BD223J	J	AA	22 kohms,1/8W	R758-760	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R167	VRD-MN2BD473J	J	AA	47 kohms,1/8W	R761,762	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R168	VRD-ST2CD4R7J	J	AA	4.7 ohms,1/6W	R763	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R169-174	VRD-MN2BD102J	J	AA	1 kohm,1/8W	R765	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R309	VRD-ST2CD103J	J	AA	10 kohm,1/6W	R766	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R311	VRD-MN2BD104J	J	AA	100 kohm,1/8W	R767	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R313	VRD-MN2BD333J	J	AA	33 kohms,1/8W	R769	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R314	VRD-ST2CD220J	J	AA	22 ohms,1/6W	R770,771	VRD-MN2BD101J	J	AA	100 ohm,1/8W
R316	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W	R773	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R322	VRD-MN2BD681J	J	AA	680 ohms,1/8W	R778	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R323	VRD-MN2BD683J	J	AA	68 kohms,1/8W	R779-781	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R325	VRD-MN2BD473J	J	AA	47 kohms,1/8W	R783	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R327	VRD-MN2BD330J	J	AA	33 ohms,1/8W	R784	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R336	VRD-MN2BD103J	J	AA	10 kohm,1/8W	R785	VRD-ST2CD101J	J	AA	100 ohm,1/6W
R350	VRD-MN2BD272J	J	AA	2.7 kohms,1/8W	R786-788	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R351	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W	R790-795	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R352	VRD-MN2BD102J	J	AA	1 kohm,1/8W	R796	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R353	VRD-MN2BD271J	J	AA	270 ohms,1/8W	R797	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R355	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W	R798	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R356	VRD-MN2BD102J	J	AA	1 kohm,1/8W	R799	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R357	VRD-ST2CD474J	J	AA	470 kohms,1/6W	R801	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R358	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W	R802	VRD-ST2EE100J	J	AA	10 ohm,1/4W
R359	VRD-MN2BD182J	J	AA	1.8 kohms,1/8W	R803	VRD-ST2CD123J	J	AA	12 kohms,1/6W

NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
R804	VRD-ST2CD473J	J AA	47 kohms,1/6W
R805	VRD-ST2EE223J	J AA	22 kohms,1/4W
R806	VRD-ST2CD103J	J AA	10 kohm,1/6W
R808	VRD-ST2CD151J	J AA	150 ohms,1/6W
R809	VRD-ST2CD222J	J AA	2.2 kohms,1/6W
R819	VRD-ST2EE223J	J AA	22 kohms,1/4W
R826	VRD-ST2CD224J	J AA	220 kohms,1/6W
R827	VRD-ST2CD473J	J AA	47 kohms,1/6W
R828	VRD-ST2CD101J	J AA	100 ohm,1/6W
R829,830	VRD-ST2EE470J	J AA	47 ohms,1/4W
R850	VRD-RT2HD3R3J	J AA	3.3 ohms,1/2W
R852	VRD-ST2EE223J	J AA	22 kohms,1/4W
R853	VRD-ST2CD223J	J AA	22 kohms,1/6W
R854	VRD-ST2CD103J	J AA	10 kohm,1/6W
R855	VRD-RT2HD3R3J	J AA	3.3 ohms,1/2W
R856	VRD-ST2EE561J	J AA	560 ohms,1/4W
△ R901	VRG-ST2EC101J	J AB	100 ohm,1/4W,Fusible
R902	VRD-ST2CD223J	J AA	22 kohms,1/6W
R903,904	VRD-ST2CD563J	J AA	56 kohms,1/6W
R906,907	VRD-ST2CD561J	J AA	560 ohms,1/6W
R908,909	VRD-ST2CD102J	J AA	1 kohm,1/6W
△ R910	VRG-ST2EC101J	J AB	100 ohm,1/4W,Fusible
R911,912	VRN-VV3AAR10J	J AB	0.1 ohm,1W
R913,914	VRD-ST2CD102J	J AA	1 kohm,1/6W
R915,916	VRD-ST2CD682J	J AA	6.8 kohms,1/6W
R917,918	VRD-ST2CD102J	J AA	1 kohm,1/6W
R919-921	VRD-ST2CD563J	J AA	56 kohms,1/6W
R922,923	VRD-ST2EE4R7J	J AA	4.7 ohms,1/4W
△ R924,925	VRG-ST2EC101J	J AB	100 ohm,1/4W,Fusible
R926	VRD-ST2CD223J	J AA	22 kohms,1/6W
R927,928	VRD-ST2CD563J	J AA	56 kohms,1/6W
R929,930	VRD-ST2CD821J	J AA	820 ohms,1/6W
R931,932	VRD-ST2CD102J	J AA	1 kohm,1/6W
R933,934	VRN-VV3AAR10J	J AB	0.1 ohm,1W
R935,936	VRD-ST2CD103J	J AA	10 kohm,1/6W
R937,938	VRD-ST2CD102J	J AA	1 kohm,1/6W
R939-941	VRD-ST2CD563J	J AA	56 kohms,1/6W
R942,943	VRD-ST2EE4R7J	J AA	4.7 ohms,1/4W
R944-947	VRD-RT2HD271J	J AA	270 ohms,1/2W
R948-951	VRD-ST2CD222J	J AA	2.2 kohms,1/6W
R952	VRD-ST2CD153J	J AA	15 kohms,1/6W
R953	VRD-ST2CD683J	J AA	68 kohms,1/6W
R954	VRD-ST2CD102J	J AA	1 kohm,1/6W
R955	VRD-RT2HD4R7J	J AA	4.7 ohms,1/2W
R956,957	VRD-ST2CD183J	J AA	18 kohms,1/6W
R970-975	VRD-ST2CD683J	J AA	68 kohms,1/6W
R976,977	VRD-ST2CD102J	J AA	1 kohm,1/6W
R979	VRD-ST2CD102J	J AA	1 kohm,1/6W
R980	VRD-ST2CD103J	J AA	10 kohm,1/6W
R993-996	VRN-VV3DAR22J	J AC	0.22 ohms,2W
R997,998	VRD-ST2CD273J	J AA	27 kohms,1/6W
RD01	VRD-ST2CD681J	J AA	680 ohms,1/6W
RD02	VRD-ST2CD821J	J AA	820 ohms,1/6W
RD03	VRD-MN2BD102J	J AA	1 kohm,1/8W
RD04	VRD-MN2BD152J	J AA	1.5 kohms,1/8W
RD05	VRD-ST2CD222J	J AA	2.2 kohms,1/6W
RD06	VRD-MN2BD272J	J AA	2.7 kohms,1/8W
RD07	VRD-MN2BD392J	J AA	3.9 kohms,1/8W
RD08	VRD-MN2BD562J	J AA	5.6 kohms,1/8W
RD09	VRD-MN2BD103J	J AA	10 kohm,1/8W
RD10	VRD-MN2BD153J	J AA	15 kohms,1/8W
RD11	VRD-MN2BD333J	J AA	33 kohms,1/8W
RD12	VRD-MN2BD104J	J AA	100 kohm,1/8W
RD13	VRD-ST2CD681J	J AA	680 ohms,1/6W
RD14	VRD-MN2BD821J	J AA	820 ohms,1/8W
RD15	VRD-MN2BD102J	J AA	1 kohm,1/8W
RD16	VRD-MN2BD152J	J AA	1.5 kohms,1/8W
RD17	VRD-ST2CD222J	J AA	2.2 kohms,1/6W
RD18	VRD-ST2CD272J	J AA	2.7 kohms,1/6W
RD19	VRD-ST2CD392J	J AA	3.9 kohms,1/6W
RD20	VRD-MN2BD562J	J AA	5.6 kohms,1/8W
RD21	VRD-MN2BD103J	J AA	10 kohm,1/8W
RD22	VRD-MN2BD153J	J AA	15 kohms,1/8W
RD25	VRD-MN2BD681J	J AA	680 ohms,1/8W
RD26	VRD-MN2BD182J	J AA	1.8 kohms,1/8W
RD28	VRD-MN2BD152J	J AA	1.5 kohms,1/8W
RD29	VRD-MN2BD222J	J AA	2.2 kohms,1/8W
RD30	VRD-MN2BD272J	J AA	2.7 kohms,1/8W
RD31	VRD-MN2BD392J	J AA	3.9 kohms,1/8W
RD32	VRD-MN2BD562J	J AA	5.6 kohms,1/8W
RD33	VRD-MN2BD103J	J AA	10 kohm,1/8W
RD34	VRD-MN2BD153J	J AA	15 kohms,1/8W

NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
RD35	VRD-MN2BD333J	J AA	33 kohms,1/8W
RS709,710	VRD-MN2BD152J	J AA	1.5 kohms,1/8W

OTHER CIRCUITRY PARTS

BI601/CNS601	QCNCWN1850AWZZ	J AF	Connector Ass'y,6/6Pin
BI701/CNS905	QCNCWN1846AWZZ	J AH	Connector Ass'y,8/8Pin
BI702/CNS702	QCNCWN1847AWZZ	J AD	Connector Ass'y,2/2Pin
BI703A/B	QCNCWN1848AWZZ	J AD	Connector Ass'y,2/2Pin
BI704/CNS704	QCNCWN1849AWZZ	J AK	Connector Ass'y,12/12Pin
BI901/CNS901	QCNCWN1851AWZZ	J AG	Connector Ass'y,7/7Pin
BI902/CNS902	QCNCWN1852AWZZ	J AF	Connector Ass'y,5/5Pin
CNP1	QCNCM704GAWZZ	J AC	Plug,7Pin
CNP2	QCNCM704HAWZZ	J AC	Plug,8Pin
CNP3	92LCONE6P53253	J AC	Plug,6Pin
CNP3A	92LCONE6P53254	J AC	Plug,6Pin
CNP4	92LCONE4P53254	J AC	Plug,4Pin
CNP5	QCNCW026DAWZZ	J AC	Socket,4Pin
CNP6	QCNCW026HAWZZ	J AC	Socket,8Pin
CNP7	QCNCM932MAFZZ	J AE	Plug,12Pin
CNP8	92LCONE6P53254	J AC	Plug,6Pin
CNP101	QCNCM705CAFZZ	J AA	Plug,3Pin
CNP102	QCNCM705GAFZZ	J AB	Plug,7Pin
CNP301	92LCONE3P5268	J AC	Plug,3Pin
CNP602	QCNCWZP15AWZZ	J AC	Socket,15Pin
CNP701	QCNCWZY08AWZZ	J AC	Socket,8Pin
CNP702	QCNCWZF15AWZZ	J	Socket,15Pin
CNP704	92LCONE2P53254	J AB	Plug,2Pin
CNP806	QCNCW010JAWZZ	J AC	Plug,9Pin
CNP901	92LCONE7P53253	J AC	Plug,7Pin
CNP902	92LCONE5P5267X	J AB	Plug,5Pin
CNP904	92LCONE2P53253	J AB	Plug,2Pin
CNP905	92LCONE9P53253	J AC	Plug,9Pin
CNP906	QCNCM010JAWZZ	J AC	Socket,9Pin
CNP907	92LCONE2P53253	J AB	Plug,2Pin
CNS1A/B	QCNCWN1689AWZZ	J AF	Connector Ass'y,7/7Pin
CNS2A/B	QCNCWN1690AWZZ	J AG	Connector Ass'y,8/8Pin
CNS3A/B	QCNCWN1688AWZZ	J AF	Connector Ass'y,6/6Pin
CNS4	QCNCWN1692AWZZ	J AD	Connector Ass'y,4Pin
CNS904	QCNCWN1841AWZZ	J AD	Connector Ass'y,2Pin
CNS907	QCNCWN1955AWZZ	J AD	Connector Ass'y,2Pin
△ F800,801	QFS-D402DAWNI	J AC	Fuse,4A/125V
△ F802,803	QFS-D502DAWNI	J AC	Fuse,5A/125V
△ F804,805	QFS-D202DAWNI	J AC	Fuse,2A/125V
△ F806	QFS-D502DAWNI	J AC	Fuse,5A/125V
FFC701	QCNCWN1838AWZZ	J AD	Flat Cable,8Pin
FFC702	QCNCWN1857AWZZ	J AF	Flat Cable,15Pin
FL701	VVKNA16LM17-1	J BC	FL Display
FW2	QCNCWN1691AWZZ	J AD	Flat Wire,8Pin
FW3	QCNCWN1693AWZZ	J AC	Flat Wire,4Pin
FW901	QCNCWN1853AWZZ	J AD	Flat Wire,5Pin
JK601	QSOCJ0219AWZZ	J AD	Jack,Video/AUX In
JK670	QJAKM0004AWZZ	J AK	Jack,Headphones
JOG701	QSW-Z0014AWZZ	J AF	Switch,Push Type [Jog Volume]
LG901	QLUGP0001AWZZ	J AC	Lug
M901,902	RMOTV0027AWZZ	J AM	Motor,Air Cooling Fan
MOB1	92LMTR3435DASY	J AM	Main Cam Motor Ass'y
MOB2	92LMTR3435DASY	J AM	Tray Motor Ass'y
NM1	92LMTR2996CASY	J AS	Motor with Chassis [Spindle]
NM2	92LMTR1854BASY	J AP	Motor with Gear [Sled]
NSW1	QSW-F9001AW01	J AD	Switch,Push Type [Pickup In]
RX701	VHLN63H380A-1	J AK	Remote Sensor,N63H380A
RY901,902	RRLYD0014AWZZ	J AK	Relay
SO901	QTANA0810AWZZ	J AF	Terminal,Speaker
SW701	92LSWICH1401AT	J AC	Switch,Key Type [Power]
SW706	92LSWICH1401AT	J AC	Switch,Key Type [Disc 1 Play]
SW707	92LSWICH1401AT	J AC	Switch,Key Type [Disc 2 Play]
SW708	92LSWICH1401AT	J AC	Switch,Key Type [Disc 3 Play]
SW709	92LSWICH1401AT	J AC	Switch,Key Type [Disc 4 Play]
SW710	92LSWICH1401AT	J AC	Switch,Key Type [Disc 5 Play]
SW711	92LSWICH1401AT	J AC	Switch,Key Type [Disc 6 Play]
SW712	92LSWICH1401AT	J AC	Switch,Key Type [Disc 5 Eject]
SW713	92LSWICH1401AT	J AC	Switch,Key Type [Disc 6 Eject]
SW714	92LSWICH1401AT	J AC	Switch,Key Type [Dimmer]
SW715	92LSWICH1401AT	J AC	Switch,Key Type [CD]
SW716	92LSWICH1401AT	J AC	Switch,Key Type [Tape]
SW717	92LSWICH1401AT	J AC	Switch,Key Type [Tuner]
SW718	92LSWICH1401AT	J AC	Switch,Key Type [Video]
SW719	92LSWICH1401AT	J AC	Switch,Key Type [Memory]
SW720	92LSWICH1401AT	J AC	Switch,Key Type [Equalizer]
SW721	92LSWICH1401AT	J AC	Switch,Key Type [Disc 1 Eject]

CD-BA3100

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
SW722	92LSWICH1401AT	J	AC	Switch,Key Type [Disc 2 Eject]
SW723	92LSWICH1401AT	J	AC	Switch,Key Type [Disc 3 Eject]
SW724	92LSWICH1401AT	J	AC	Switch,Key Type [Disc 4 Eject]
SW727	92LSWICH1401AT	J	AC	Switch,Key Type [Rewind]
SW728	92LSWICH1401AT	J	AC	Switch,Key Type [Fast Forward]
SW729	92LSWICH1401AT	J	AC	Switch,Key Type [Stop]
SW732	92LSWICH1401AT	J	AC	Switch,Key Type [Play]
SW733	92LSWICH1401AT	J	AC	Switch,Key Type [Clock]
SW734	92LSWICH1401AT	J	AC	Switch,Key Type [Timer]
SW735	92LSWICH1401AT	J	AC	Switch,Key Type [Tuner Up]
SW736	92LSWICH1401AT	J	AC	Switch,Key Type [Tuner Down]
SW737	92LSWICH1401AT	J	AC	Switch,Key Type [REC/Pause]
SW738	92LSWICH1401AT	J	AC	Switch,Key Type [X-Bass]
SWB101	QSW-P9005AWZZ	J	AD	Switch,Push Type [Disc Detect 1]
SWB102	QSW-P9005AWZZ	J	AD	Switch,Push Type [Disc Detect 2]
SWB103	QSW-P9005AWZZ	J	AD	Switch,Push Type [Disc Detect 3]
SWB104	QSW-P9003AWZZ	J	AD	Switch,Push Type [Mode 1]
SWB105	QSW-P9003AWZZ	J	AD	Switch,Push Type [Mode 2]
SWB106	QSW-P9003AWZZ	J	AD	Switch,Push Type [Mode 3]
SWB107	QSW-P9003AWZZ	J	AD	Switch,Push Type [Mode 4]
SWB108	QSW-P9003AWZZ	J	AD	Switch,Push Type [Mode 5]
SWB109	QSW-P9004AWZZ	J	AE	Switch,Push Type [Tray 1]
SWB110	QSW-P9004AWZZ	J	AE	Switch,Push Type [Tray 2]
WT601	QCNCW012EAWZZ	J	AC	Socket,5Pin

CD MECHANISM PARTS

301	NGERH0011AWZZ	J	AC	Gear,Middle
302	NGERH0012AWZZ	J	AC	Gear,Drive
303	MLEVP0080AWZZ	J	AC	Rail,Guide
304	NSFTM0020AWFW	J	AD	Shaft,Guide
305	92LMCUSHN1524A	J	AD	Cushion
△ 306	92LHPC1LXASY	J	BD	Pickup Unit Ass'y
306- 1	—	—	—	Pickup Unit (Not Replacement Item)
306- 2	NGERR0043AFZZ	J	AC	Gear,Rack
306- 3	MSPRC0961AFZZ	J	AA	Spring,Rack
307	PCUSG0001AWSA	J	AD	Cushion
308	PCUSG0004AWSA	J	AD	Cushion
701	XBSSD26P06000	J	AA	Screw,ø2.6×6mm
702	XHBSD20P05000	J	AA	Screw,ø2×5mm
703	XBBS20P03000	J	AA	Screw,ø2×3mm
704	LX-WZ1070AFZZ	J	AA	Washer,ø1.5×ø3.8×0.25mm
NM1	92LMTR2996CASY	J	AS	Motor with Chassis [Spindle]
NM2	92LMTR1854BASY	J	AP	Motor with Gear [Sled]
NSW1	QSW-F9001AW01	J	AD	Switch,Push Type [Pickup In]

CHANGER MECHANISM PARTS

101	LCHSM0106AWZZ	J	AQ	Main Base
102	PGIDM0033AWZZ	J	AH	Change Box,L
103	PGIDM0034AWZZ	J	AG	Change Box,R
104	NGERH0121AWZZ	J	AC	Gear,STB B
105	PGIDM0035AWZZ	J	AH	Bracket,STB Gear
106	MLEVP0098AWZZ	J	AB	Lever,Tray Lock
107	MSPRP0040AWFW	J	AD	Spring,Tray Lock Lever
108	GCOVA1317AWZZ	J	AF	Tray 1
109	GCOVA1318AWZZ	J	AF	Tray 2
110	GCOVA1319AWZZ	J	AF	Tray 3
111	GCOVA1320AWZZ	J	AF	Tray 4
112	GCOVA1321AWZZ	J	AF	Tray 5
113	GCOVA1322AWZZ	J	AF	Tray 6
114	LPLTP0010AWZZ	J	AG	Top Plate,R
115	MCAMP0009AWZZ	J	AE	Cam,Lift
116	NSFTT0057AWFD	J	AE	Shaft,Lift Cam
117	LPLTP0009AWZZ	J	AH	Top Plate,F
118	MLEVP0099AWZZ	J	AB	Lever,Disc OB
119	NGERH0098AWZZ	J	AC	Gear,STB Drive,A
120	NGERH0099AWZZ	J	AC	Gear,STB Drive,L
121	MLEVF0055AWFW	J	AC	Lever,OS,L/R
122	NGERH0100AWZZ	J	AC	Gear,STB Drive,R
123	MSPRT0040AWFJ	J	AB	Spring,OS Lever
124	NGERH0111AWZZ	J	AC	Gear,Tray Drive,R
125	NGERH0113AWZZ	J	AF	Gear,Tray Joint,B
126	NGERH0116AWZZ	J	AH	Gear,Mode Big
127	NGERH0117AWZZ	J	AC	Gear,Lift A
128	NGERH0118AWZZ	J	AB	Gear,Lift B
129	NGERH0119AWZZ	J	AF	Gear,Lift C
130	NGERH0115AWZZ	J	AC	Gear,Tray Idler

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
131	NGERH0106AWZZ	J	AC	Gear,MT Idler,F
132	NGERH0120AWZZ	J	AB	Gear,STB A
133	NSFTT0055AWM1	J	AH	STB Gear Ass'y
133- 1	NGERH0122AWZZ	J	AC	Gear,STB C
133- 2	NSFTT0055AWFD	J	AG	Shaft,STB Gear
133- 3	NGERH0123AWZZ	J	AC	Gear,STB D
134	NGERH0108AWZZ	J	AK	Gear,Tray Big
135	NGERH0109AWZZ	J	AB	Gear,Tray A
136	NGERH0110AWZZ	J	AC	Gear,Tray B
137	NGERH0103AWZZ	J	AB	Gear,MT Idler,C
138	NGERH0102AWZZ	J	AC	Gear,MT Idler,B
139	NGERH0105AWZZ	J	AB	Gear,MT Idler,E
140	NGERH0104AWZZ	J	AB	Gear,MT Idler,D
141	NGERH0101AWZZ	J	AD	Gear,MT Idler,A
142	NGERH0114AWZZ	J	AB	Gear,Tray C
143	NGERH0107AWZZ	J	AC	Gear,Tray Drive,F
144	NGERH0112AWZZ	J	AF	Gear,Tray Joint,F
145	MLEVP0097AWZZ	J	AB	Lever,Left
146	NSFTT0056AWFD	J	AC	Shaft,Lift Lever
147	LHLDZ1270AWZZ	J	AH	Holder,STB
148	PMAGF0001AWZZ	J	AF	Magnet
149	LHLDM1011AWZZ	J	AD	STB FH
150	92LNBAND1318A	J	AA	Nylon Band,80mm
151	QCNCW025DAWZZ	J	AB	Holder,Flat Wire,4Pin
152	QCNCW025HAWZZ	J	AC	Holder,Flat Wire,8Pin
801	XBPSD26P04000	J	AA	Screw,ø2.6×4mm
802	XEBSD20P07000	J	AB	Screw,ø2×7mm
803	XEBSD20P10000	J	AA	Screw,ø2×10mm
804	XHBSD20P05000	J	AA	Screw,ø2×5mm
805	LX-EZ0005AWFD	J	AA	Screw,ø2.6×10mm
806	LX-EZ0026AWFD	J	AB	Screw,ø2×9mm
807	LX-JZ0105AFFN	J	AA	Screw,ø1.7×5mm
808	XEBSD30P10000	J	AA	Screw,ø3×10mm
MOB1	92LMTR3435DASY	J	AM	Main Cam Motor Ass'y
MOB2	92LMTR3435DASY	J	AM	Tray Motor Ass'y

CABINET PARTS

201	92LCAB3629AASY	J	—	Front Panel Ass'y
201- 1	—	—	—	Front Panel (Not Replacement Item)
201- 2	GDORF0101AWSA	J	AF	Holder,Cassette [Tape 1]
201- 3	GDORF0102AWSA	J	AF	Holder,Cassette [Tape 2]
201- 4	HDECQ0692AWSA	J	AE	Panel,Cassette [Tape 1]
201- 5	HDECQ0693AWSA	J	AE	Panel,Cassette [Tape 2]
201- 6	GCOVA1360AWSA	J	AH	Cover,Cassette [Tape 1]
201- 7	GCOVA1361AWSA	J	AH	Cover,Cassette [Tape 2]
201- 8	GDORF0103AWSA	J	AE	Door,Changer
201- 9	HDECQ0694AWSA	J	AH	Panel,Amp.
201-10	JKNBZ0785AWSA	J	AE	Button,Power/Dimmer
201-11	JKNBZ0786AWSA	J	AF	Button,Disc Number
201-12	JKNBZ0787AWSA	J	AD	Button,Function
201-13	JKNBZ0788AWSA	J	AF	Button,Play/Stop
201-14	JKNBZ0789AWSA	J	AF	Button,Tuning
201-15	JKNBZ0790AWSA	J	AE	Button,CD Eject
201-16	JKNBZ0791AWSA	J	AE	Button,X-Bass
201-17	HDECQ0695AWSA	J	AG	Panel,Top
201-18	GCOVA1362AWSA	J	AC	Cover,Play/Stop
201-19	HDECQ0698AWSA	J	AE	Panel,Changer Door
201-20	LHLDZ1335AWSA	J	AC	Holder,Changer Door
201-21	MSPRD0160AWFJ	J	AB	Spring,Changer Door
201-22	HDECQ0699AWSA	J	AG	Panel,Main Control
201-23	GCOVA1363AWSA	J	AD	Cover,Remote Sensor
201-24	GCOVA1364AWSA	J	AB	Cover,Timer
201-25	HDECQ0708AWSA	J	AD	Decoration Plate,Function
201-28	MLIFP0010AWZZ	J	AD	Damper
201-29	HBDGB1001AWSA	J	AD	Badge,SHARP
201-30	MSPRD0092AWFJ	J	AB	Spring,Cassette,Tape 1
201-31	MSPRD0093AWFJ	J	AB	Spring,Cassette,Tape 2
202	92LCAB3629BASY	J	—	Side Panel Ass'y,Left
202- 1	—	—	—	Side Panel,Left (Not Replacement Item)
202- 2	PCUSG0022AWZZ	J	AB	Cushion,Leg
203	92LCAB3629CASY	J	—	Side Panel Ass'y,Right
203- 1	—	—	—	Side Panel,Right (Not Replacement Item)
203- 2	PCUSG0022AWZZ	J	AB	Cushion,Leg
204	GCAB-1193AWSA	J	AN	Cabinet,Top
205	LCHSM0124AWFW	J	AQ	Main Chassis
206	LHLDZ1334AWZZ	J	AE	Holder,FL Display
207	GITAR0668AWSA	J	AQ	Rear Panel

[For U.S.A./Central America]

NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
207	GITAR0694AWSA	J AQ	Rear Panel [For Canada]
207	GITAR0695AWSA	J AQ	Rear Panel [For Mexico]
208	LANGK0188AWFW	J AF	Bracket,Fan Support
209	LANGK0236AWFW	J AE	Bracket,Heat Sink Left
210	LANGK0237AWFW	J AE	Bracket,Heat Sink Right
211	92LCSPR1431C	J AA	Spring,Ring
212	NFANP0001AWZZ	J AD	Rotary Fan
213	LANGK0256AWFW	J AC	Bracket,Cassette Lock [Tape 1]
214	LANGK0257AWFW	J AC	Bracket,Cassette Lock [Tape 2]
215	MLOKC0010AWZZ	J J	Lever,Cassette Lock [Tape 1]
216	MLOKC0011AWZZ	J AC	Lever,Cassette Lock [Tape 2]
217	MSPRD0109AWFJ	J AB	Spring,Cassette Lock [Tape 1]
218	MSPRD0110AWFJ	J AB	Spring,Cassette Lock [Tape 2]
219	LHLDZ1333AWZZ	J AC	Holder,LED
220	PRDAR0184AWFW	J AH	Heat Sink,Sub
221	PRDAR0192AWFW	J AV	Heat Sink,Main
△ 222	QACCD0022AWZZ	J AM	AC Power Supply Cord
223	QCNWN1860AWZZ	J AC	Lug Wire
224	LBSHC0005AWZZ	J AD	Bushing,AC Power Supply Cord
225	QFSHD0001AWZZ	J AB	Holder,Fuse
226	92LNBAND1318A	J AA	Nylon Band,80mm
227	LCHSZ0021AWZZ	J AL	Chassis,Changer
228	KMECB0021AWZZ	J BF	Tape Mechanism Ass'y
228- 1	92PF513-860	J	Head Plate Block [Tape 2]
228- 2	92PF525-338	J	Motor with Pulley [Tape]
228- 3	92PF567-649	J	Tape Mechanism PWB Ass'y
228- 4	92PFF19U-12	J	Belt,Main [Tape 2]
228- 5	92PF514-135	J AL	Pinch Roller
228- 6	92PF19S-31	J	Belt,FF/REW [Tape 2]
228- 7	92PFF19N-11	J	Belt,Main [Tape 1]
228- 8	92PF522-061	J	Clutch Ass'y Block [Tape 1]
228- 9	92PFF19S-52	J	Belt,FF/REW [Tape 2]
228-10	92PF513-861	J	Head Plate Block [Tape 1]
228-11	92PF522-063	J	Clutch Ass'y Block [Tape 2]
229	PCUSG0022AWZZ	J AB	Cushion,Leg
230	JKNBZ0784AWSA	J AF	Knob,Volume
231	LANGK0272AWFW	J	Bracket,Fan Support
601	LX-BZ2222AXZZ	J AB	Screw,Special
602	XEBSD30P08000	J AA	Screw,ø3×8mm
603	XEBSD30P06000	J AA	Screw,ø3×6mm
604	XEBSD30P14000	J AA	Screw,ø3×14mm
605	LX-HZ0009AWFD	J AC	Screw,Special
606	XHBSD26P04000	J AA	Screw,ø2.6×4mm
607	LX-LZ0006AWZZ	J	Holder,PWB
608	XESSD30P10000	J AA	Screw,ø3×10mm
609	LX-HZ0082AFZZ	J AA	Screw,ø4×8mm
610	LX-JZ0010AFFD	J AA	Screw,ø3×10mm
611	XJBSD30P10000	J AA	Screw,ø3×10mm
612	XJSSD30P10000	J AA	Screw,ø3×10mm
613	XJBSD30P12000	J AA	Screw,ø3×12mm
614	XBBSD20P04000	J AA	Screw,ø2×4mm
617	XJBSD30P16000	J AA	Screw,ø3×16mm
619	XJBSD30P08000	J	Screw,ø3×8mm
620	LX-BZ0880AFZZ	J	Screw,ø × mm

PACKING PARTS (Except for U.S.A.)

SPAKA0296AWZZ	J	Packing Add.
SPAKC1130AWZZ	J	Packing Case
		[For U.S.A./Central America]
SPAKC1131AWZZ	J	Packing Case [For Mexico]
SPAKC1132AWZZ	J	Packing Case [For Canada]
SPAKP0032AWZZ	J AF	Polyethylene Bag,Unit
SSAKA0007AWZZ	J AB	Polyethylene Bag,Accessories

ACCESSORIES

QANTL0007AWZZ	J AK	AM/FM Loop Antenna
TINSE0344AWZZ	J AE	Operation Manual
		[For U.S.A./Central America]
TINSK0110AWZZ	J	Operation Manual [For Canada]
TINSZ0650AWZZ	J AC	Quick Guide
		[For U.S.A./Central America]
TINSZ0655AWZZ	J	Operation Manual [For Mexico]
TLABN0112AWZZ	J AA	Label,Serial Number
TLABR1177AWZZ	J AB	Label,Bar Code
TLABZ0874AWZZ	J AC	Label,Feature [Tape 1]
TLABZ0875AWZZ	J AC	Label,Feature [Tape 2]
RRMCG0266AWSA	J AQ	Remote Control
	J	Battery Lid,Remote Control

NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
P.W.B. ASSEMBLY (Not Replacement Item)			
PWB-A	92LPWB3629MANS	J —	Main
PWB-B1~4	92LPWB3629DPLS	J —	Display/Eject Switch/Play Switch/Headphones (Combined Ass'y)
PWB-C	92LPWB3629CDUS	J —	CD Servo
PWB-D1~3	92LPWB3629PWRS	J —	Power Amp./Power A/Power B (Combined Ass'y)
PWB-E	QPWBF0644AWZZ	J AD	Tray Switch (PWB Only)
PWB-F	QPWBF0645AWZZ	J AC	Cam Switch (PWB Only)
PWB-G	QPWBF0027AWZZ	J AD	CD Motor (PWB Only)
PWB-H	92PF567-649	J —	Tape Mechanism

OTHER SERVICE PART

UDSKA0004AFZZ	J AZ	CD Pickup Lens Cleaner
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CP-BA3100

SPEAKER BOX PARTS

901	HPNLS1021AWSA	J AY	Front Panel,Left
901	HPNLS1022AWSA	J AY	Front Panel,Right
902	CWAKP1046AWSA	J AR	Net Frame Ass'y
903	GBOXS2005AWSA	J BF	Speaker Box Ass'y,Right
903	GBOXS4005AWSA	J BF	Speaker Box Ass'y,Left
904	CPNLS1026AWSA	J AX	Sub Woofer Panel Ass'y,Left
904	CPNLS1028AWSA	J AX	Sub Woofer Panel Ass'y,Right
905	PCUSS0049AWZZ	J AD	Port Cushion
906	PCUSG0022AWZZ	J AB	Foot Cushion
907	LHLDZ8001AWSA	J AD	Catching Holder
908	QCNWN1834AWZZ	J AK	Tweeter Cord
			(With Capacitor C1,2)
909	XJBSD40P20000	J AA	Screw,ø4×20mm
910	XJBSD40P16000	J AB	Screw,ø4×16mm
911	XJBSD30P10000	J AA	Screw,ø3×10mm
912	XMBSD40P16000	J AC	Screw,ø4×16mm
913	XMBSF40P20000	J AC	Screw,ø4×20mm
914	PFLT-0046AWZZ	J AC	Felt
915	TSPC-0822AWZZ	J AC	Label,Specifications
916	QCNWN1912AWZZ	J	Sub Woofer Cord
917	QCNWN1835AWZZ	J	Woofer Cord
SP1,2	RSPA00010AW6T	J AP	Tweeter
SP3,4	RSPA10010AW6S	J AX	Woofer
SP5,6	RSPA10011AW6W	J AY	Sub Woofer

PACKING PARTS

SPAKA0298AWZZ	J	Packing Add.
SPAKZ0696AWZZ	J	Layer Pad
SSAKH0053AWZZ	J AC	Polyethylene Bag,Speaker

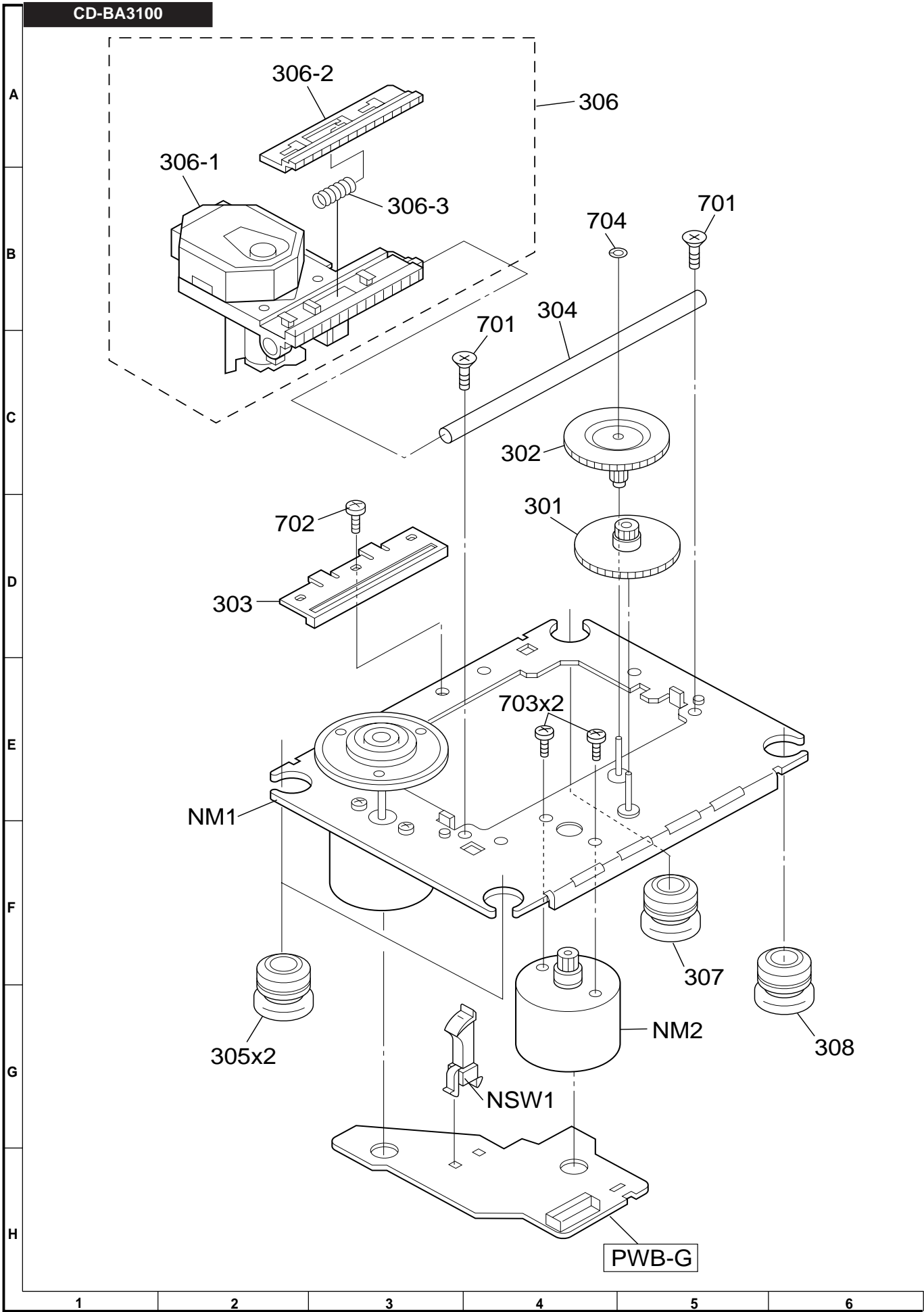


Figure 7 CD MECHANISM EXPLODED VIEW

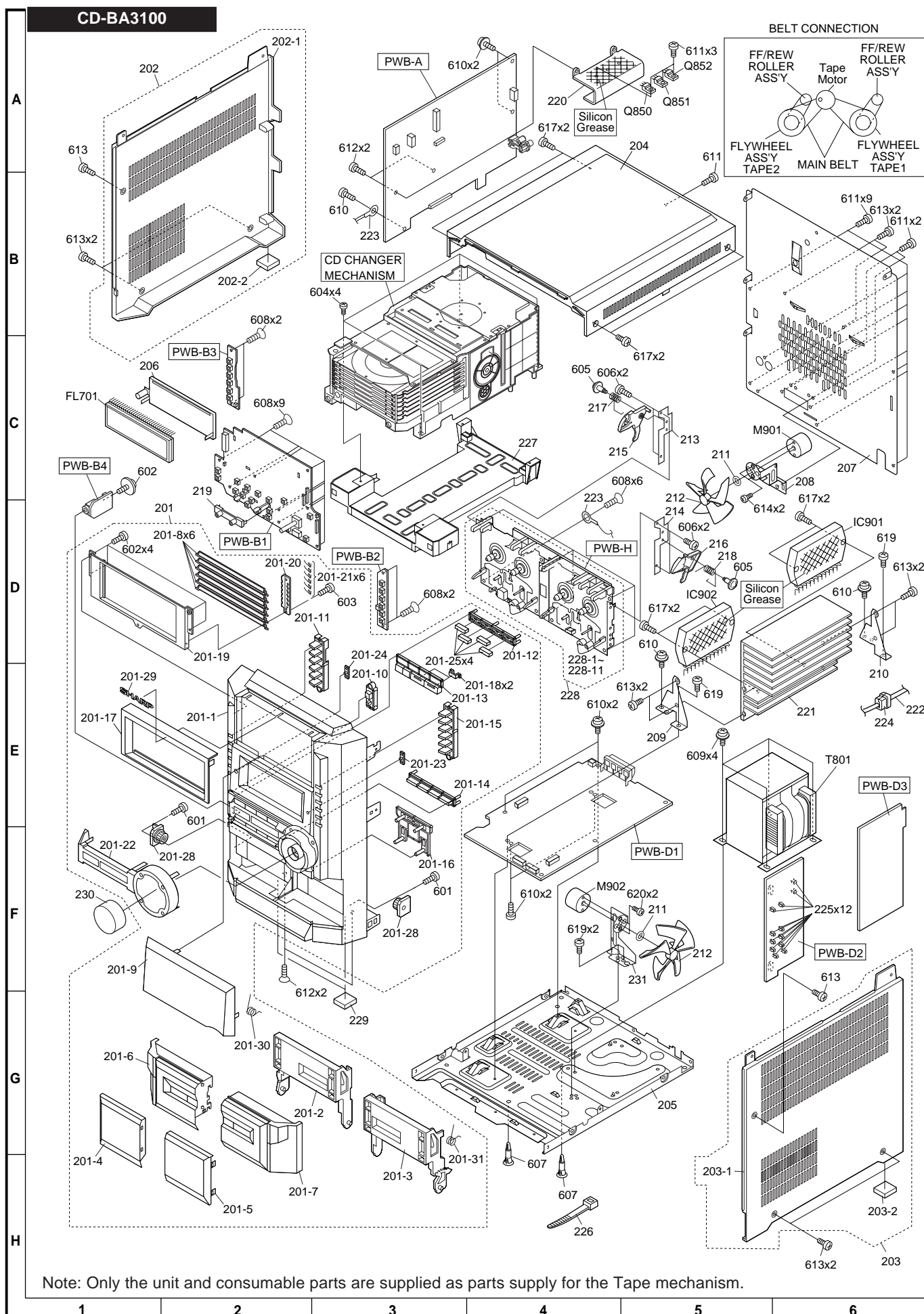


Figure 8 CABINET EXPLODED VIEW (1/2)

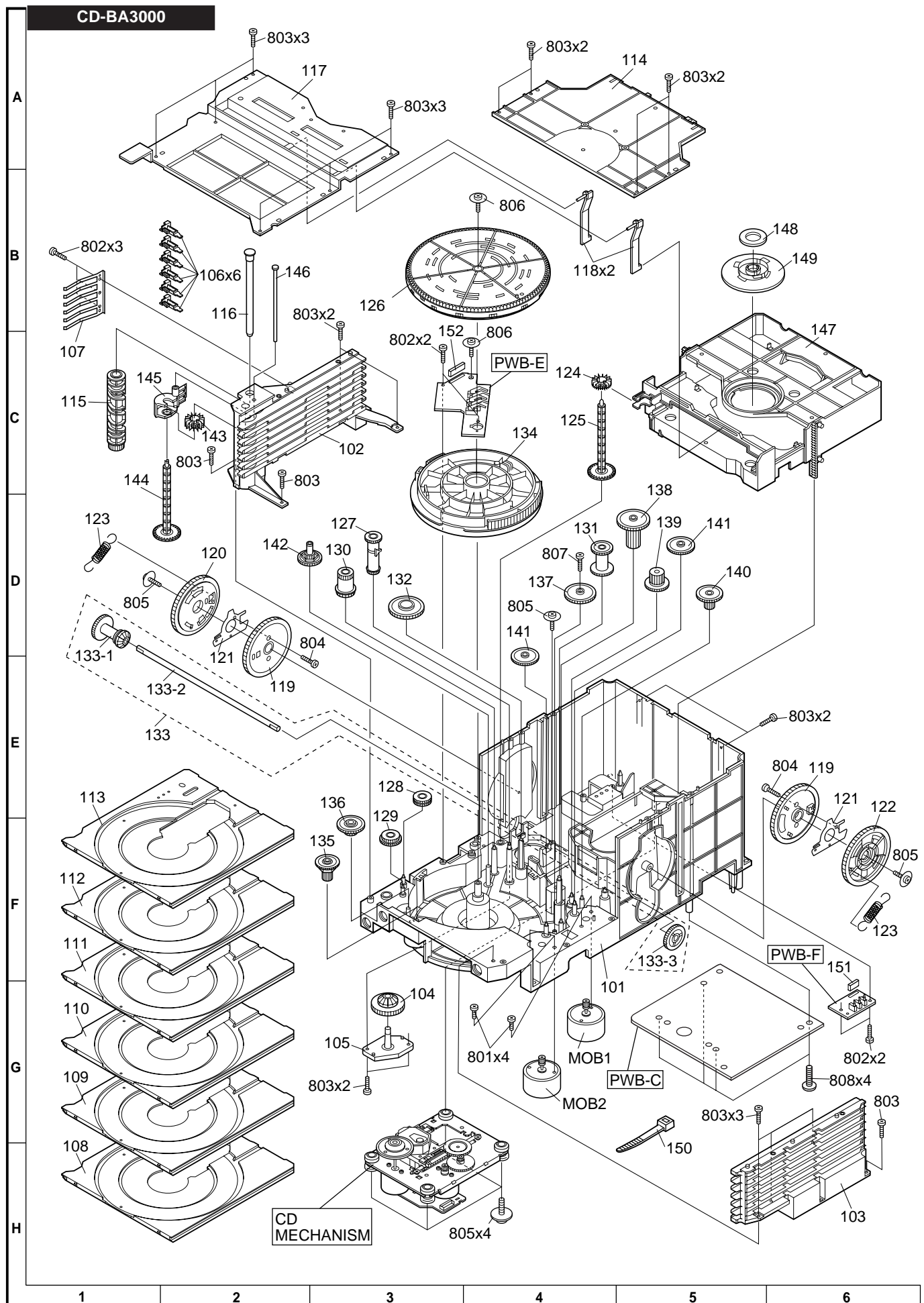


Figure 9 CABINET EXPLODED VIEW (2/2)

CP-BA3100

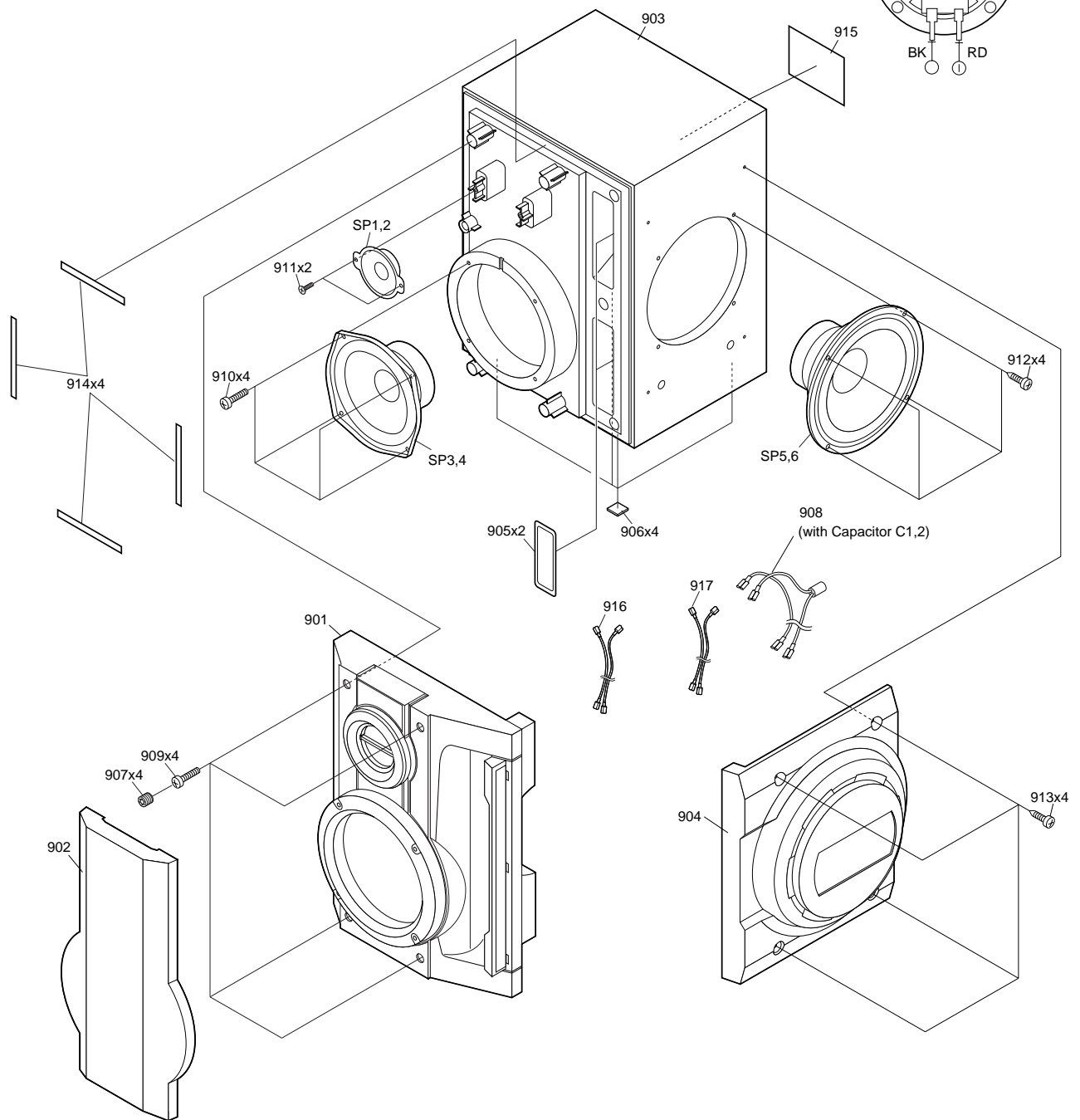
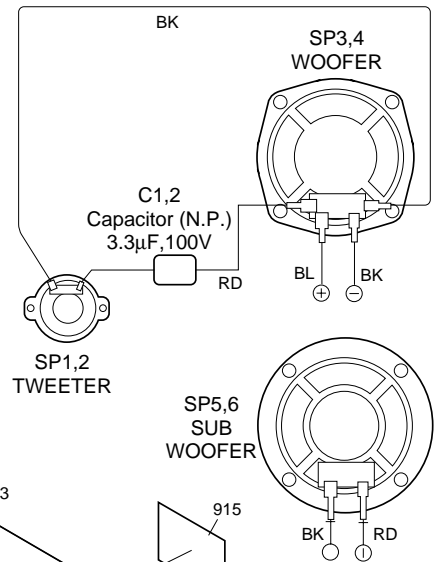
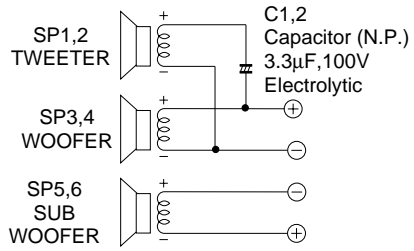
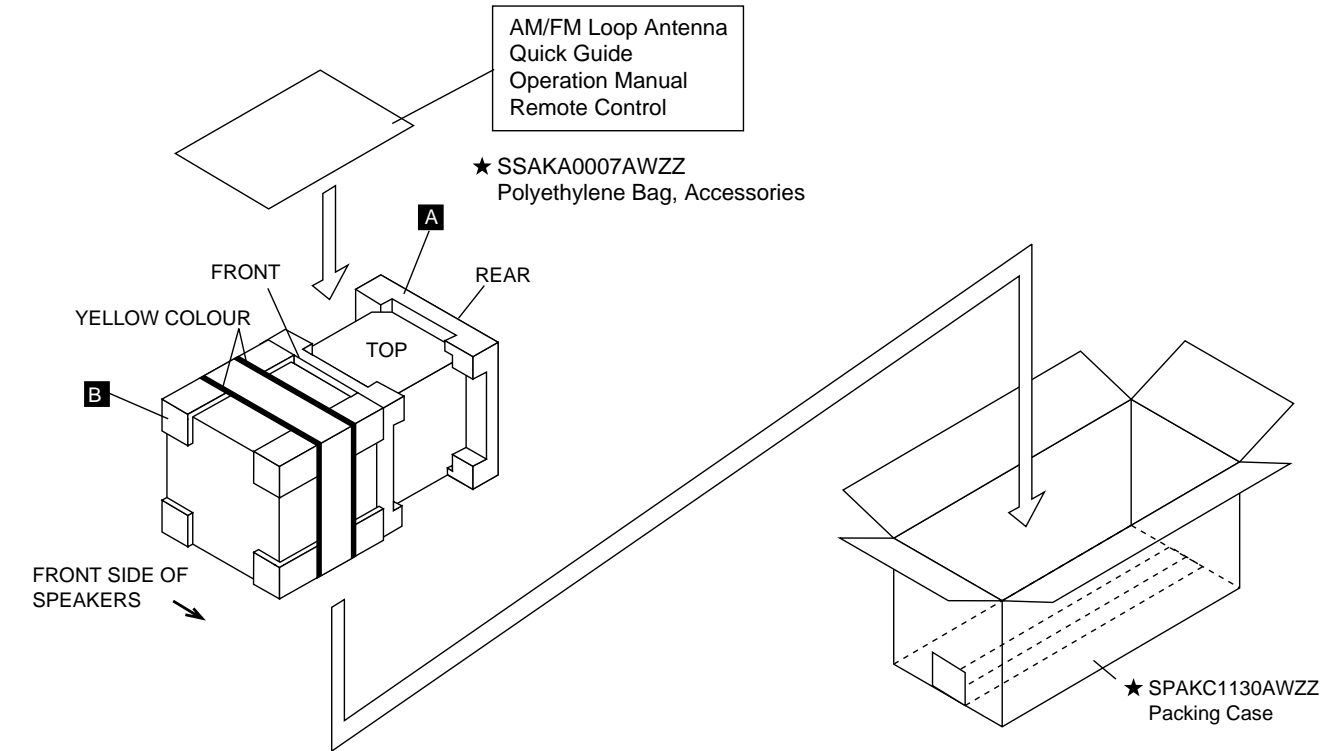
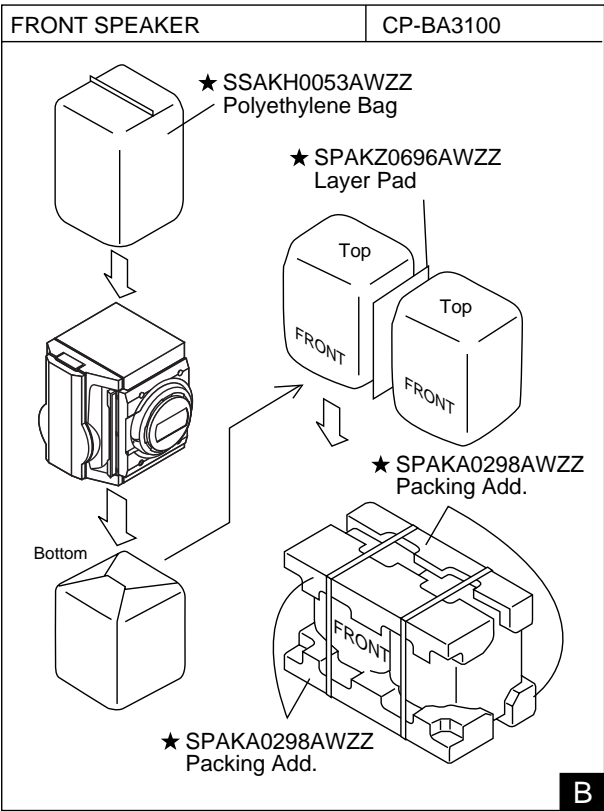
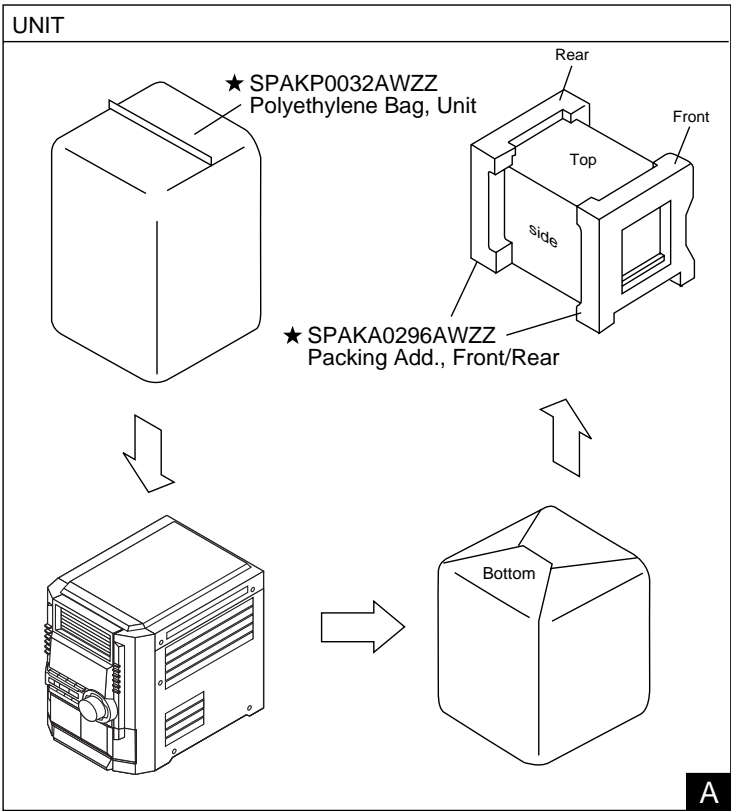


Figure 10 SPEAKER EXPLODED VIEW

PACKING OF THE SET (FOR U.S.A. ONLY)

Setting position of switches and knobs	
Tape Mechanism	STOP



★Not Replacement Item

— MEMO —



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